State of Illinois
DEPARTMENT OF TRANSPORTATION
Bureau of Materials and Physical Research

PRODUCTS EVALUATION CIRCULAR
Number 2005-1

April 22, 2005

IMPORTANT

All evaluations reported herein have been made for the benefit of the Illinois Department of Transportation. Acceptance or rejection of a product applies to the specific use by the Illinois Department of Transportation for which it was evaluated and does not extend to other uses or use by other agencies. All products are subject to reevaluation. The contents of this report are not to be reproduced or republished either in whole or in part.

ILLINOIS DEPARTMENT OF TRANSPORTATION

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Acroflex	63	Gordon Bartels Company	W
Adcolite	74	American Decal & Manufacturing Co.	A
Adjus-to-Grade	76	National Utility Products Company	A
ADS End Sections	390	Advanced Drainage Systems	R
Air-O-Form	403	Concepts in Concrete, Incorporated	W
Akwadrain	383	American Wick Drain Company	R
Albitol	292	American Vamag Company, Inc.	W
Alidrain	296	Vibroflotation Foundation Company	A
All-Weather Crete HI-45	102	Silbrico Corporation	A
Alumanation No. 301	165	Republic Powdered Metals	A
Aluminized Steel Type 1 CMP	486	St. Regis Culvert, Incorporated	L
Aluminized Steel Type 2 CMP	294	Armco, Incorporated	A
Aluminized Steel Type 2 Fence Tubing	334	Armco, Incorporated	A
Aluminum Box Culvert	304	Kaiser Aluminum, Incorporated	A
Aluminum Culvert (Wide Sheet)	39	Kaiser Aluminum, Incorporated	A
Aluminum Guard Rail	31	ALCOA	R
Aluminum Pipe Arch	11	Kaiser Aluminum, Incorporated	A
Aluminum Sectional Plate	46	Kaiser Aluminum, Incorporated	A
Aluminum Storm Sewer	88	Kaiser Aluminum, Incorporated	A
Anchor-it	389	Adhesives Technologies Corporation	A
Anticorrosive Highway Deicer	402	Cargill, Incorporated	W
Anti-Hydro	205	Anti-Hydro Waterproofing Company	R
Applegate Mulch	410	Applegate Insulation Manufacturing	A
Aquatain	166	Larutan Corporation	R
Armco Noise Barrier	284	Armco, Incorporated	R
Asbestos-Asphalt Deck Overlay	132	Johns-Manville Products Corporation	R
Asbestos-Asphalt Membrane	186	Johns-Manville Products Corporation	R
Asbestos Thin Overlay	38	Johns-Manville Products Corporation	R
Asphadur (Stab. Additive 5990)	300	Minnesota Mining & Manufacturing Co.	R
Asphaltic Mastic Rope	237	Superior Sealers Company	A
Auto-Gard	77	Neogard Corporation (Jones Blair Co.)	R
Barrier	156	National Chemical Corporation	R
Basic Lead Silico Chromate	49	Eagle Picher Company	R
Bidim (Trevira)	269	Hoechst Fibers Industries	A
Bituminous Pavement Rejuvenator	221	Koppers Company, Incorporated	R
Bitumuls Cationic Emulsified Asphalts	64	Chevron Asphalt Company	A
Bituthene (Heavy Duty)	226	W. R. Grace & Company	A
Black Beauty	33	H. B. Reed & Company, Incorporated	A
Blac-Klad	254	Inland Steel Company	A
Black Magic CPR	246	Pavon Corporation	R
Blacksmith Shunt Free Concrete	450	Blacksmith Railroad Supply	W

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Product Name	Number	Manufacturer	Status
Crossing			
Boiler Slag	55	Combustion By-Products Company	A
Bondex Concrete Patch	66	The Reardon Company	R
Bongossi	377	North American Hacon, Inc.	R
Bridge Kote No. 50	134	Templar, Incorporated	R
Busan 11-M1	373	Buckman Laboratories, Incorporated	R
Butylfelt	238	Storey Brothers & Company, Ltd.	R
C350 EC/TRM	469	North American Green	A
Cable Concrete	431	McCann Concrete Products	A
Cadilloc	366	Cadilloc External Pipe Joint, Inc.	A
Calcium Chloride Stabilization	5	Calcium Chloride Institute	R
Carbo Zinc 11	171	Carboline Company	A
Carboline 1304-145	192	Carboline Company	R
Carbomastic 15	380	Carboline Company	A
Carguard	61	Cargill, Incorporated	R
Carsonite Modular Glare Screen	360	Carson International Corporation	A
Catch-All, The	495	Mar Mac Manufacturing, Inc.	A
CDC Plastic Concrete	86	Concrete Development Corporation	W
Century Precast Concrete Railroad Crossing	417	Century Precast	R
Century Precast Frameless Concrete Railroad Crossing	466	Century Precast	A
Ceramar	345	W. R. Meadows, Incorporated	A
Ceramascape	216	Minnesota Mining & Manufacturing Co.	W
Chain Link Fence Glare Screen	306	United States Steel Corporation	A
Checker Block	275	Hastings Pavement Company, Inc.	R
ChemComp	87	Medusa Portland Cement Company	W
Chemgrass	153	Monsanto Company	R
Chemprime	154	Al-Con Chemical Company	R
Chem-Trete BSM	330	Dynamit Nobel	W
Cline Rolling Straightedge	68	Frank Cline Tractor Company	R
Cobra-X	358	Railroad Friction Products Corporation	R
Coherex	24	Witco Chemical Company	W
Cold Mix BAM	181	Walsh & Kelly, Incorporated	W
Colfix Jet Seal	130	Chevron Asphalt Company	R
Colma Membrane Compound	120	Sika Corporation	R
Colorcrete	12	W. E. Dunn Manufacturing Company	R
Concrete Arch Buried Bridge	432	Lane Enterprises, Incorporated	W
Concrete Planer	84	Christensen Diamond Products Co.	R
Concut Bump Cutter	41	Concut, Incorporated	W
Confilm	82	Master Builders, Incorporated	R
Conlock Concrete Blocks	415	Hydro-Turf and Associates, Inc.	A
Copper Smelter Slag	250	Universal Oil Products Company	R
CorBan RPM Liner Pipe	335	Armco, Incorporated	A
Corlix	6	Kaiser Aluminum, Incorporated	A
Corlix (Perforated)	10	Kaiser Aluminum, Incorporated	A

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Product Name	Number	Manufacturer	Status
Corrugated Polyethylene Culvert	308	Advanced Drainage Systems, Inc.	W
Corrugated Steel Pipe	290	National Corrugated Steel Pipe Assoc.	R
Corrugated Steel Storm Sewer Pipe	267	Illinois Corrugated Steel Pipe Assoc.	R
Cor-Ten Guard Rail	8	United States Steel Corporation	R
Cretex	201	Cretex Companies, Incorporated	R
Creto	200	Creto International	R
CRF Crack Filler	329	Witco Chemical Company	R
CRS-2S Asphalt Emulsion	332	Bitucote Products Company	R
Crown-Rite	196	Crown-Trygg Corporation	A
Curbstone	365	Curbstone, Incorporated	A
Custom Rock Form Liner System	436	Custom Rock International	A
Cybond	115	American Cyanamid Company	R
Cyclogen	297	Witco Chemical Company	A
Cycolac	188	Borg Warner Corporation	A
Dandy Bag	474	Dandy Products, Incorporated	W
Daraweld C	119	W. R. Grace and Company	R
Darex Corrosion Inhibitor	305	W. R. Grace and Company	A
Daugard	23	Daubert Chemical Company	A
Delcrete Elastomeric Concrete	407	D. S. Brown Company	A
Delugrip	293	Dunlop, Limited	R
Dimetcote E-Z	207	Ameron Corrosion Control Division	R
Diamond Wall System	435	Northfield Block Company	A
Dow Corning 777	29	Dow Corning Corporation	R
Dow Corning 888	445	Dow Corning Corporation	A
Dow Corning 890-SL	446	Dow Corning Corporation	R
Dow Corning 902 RCS	434	Dow Corning Corporation	A
Dow Mulch Binder	268	Dow Chemical Company	A
Dow Propylene Glycol	222	Dow Chemical Company	A
Dragnet Vehicle Arresting Barrier	424	Entwistie Manufacturing Company	A
Drain Guard	230	Advanced Drainage of Illinois	A
Dreco PVC Pipe	266	Drainage Engineering Corporation	A
Driscopipe 7600	279	Phillips Products Company, Inc.	A
Dura-Check	485	Panel Products, Incorporated	R
Duracal	202	United States Gypsum Company	A
Duraform	187	Kaykor Division Continental Oil Co.	R
Durisol	441	The Reinforced Earth Company	A
Duropipe Fiber Vaults	97	Sonoco Products Company	R
Duropipe Sectional Slope Drain	72	Sonoco Products Company	R
DuroTrim	496	Welch Products, Incorporated	F
Dustmaster	9	Michigan Chemical Corporation	A
Dutrex 757	314	Shell Oil Company	W
Dylex Latex 1186	285	Tex-Crete, Incorporated	A
EcoBlanket	504	Rexius Forest By-Products, Inc.	A
Eeesy Grow	54	S & D Products, Incorporated	R
Elastizell Concrete	312	Elastizell Corporation of America	A

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Product Name	Number	Manufacturer	Status
Empigard	263	Empire Plating Company	R
Enkadrain	367	American Enka Company	R
Enkamat	271	American Enka Company	A
EnviroBerm	490	Cascade Distribution, Limited	A
Enviro Frame	484	Enviromax Rubber, Incorporated	W
Epflex Railseal Interface	388	Epton Industries, Incorporated	A
Epi-Top 100	160	Celanese Resins	R[1]
Epoflex	301	Southwest Research Institute	R
EpoXeal 300	194	EpoXeal, Incorporated	R
Epoxy Modified Concrete	326	Celanese Resins	W
Epoxy Traffic Paint	65	Preform Parking Engineers, Inc.	R
Ero-Mat	374	Armco, Incorporated	A
Erosion Control Netting	336	Conwed Corporation	A
Ethafoam	142	Dow Chemical Company	A
Evercrete Noise Barrier	364	Evercrete, Limited	W
E. W. 50 Loop Detector	27	Eagle Signal Company	W
Expand X	45	United States Gypsum Company	R
Express Repair	139	Springbok Corporation	W
Extrudamat	429	Fiberized Products, Incorporated	A
Eze-Erect Sign Post	283	Franklin Steel Company	A
Fab-Ra-Cast	228	Szarka Enterprises, Incorporated	A
Fabriform Erosion Control Mats	224	Construction Techniques, Incorporated	A
Fabriform Pile Jackets	225	Construction Techniques, Incorporated	A
Farbertite	107	Briggs Bituminous Composition Co.	R
Far-Go Swift-Set	106	Dry Mix Concrete Company	R
Far-Go Vinyl Patching Compound	43	Dry Mix Concrete Company	R
FAST Corner Assembly (Fence)	385	FAST Company	A
Fast-Set Pre-Krete	151	Pocono Fabricators, Incorporated	W
Fence-Crete	452	Faddis Concrete Products	R
FiberDowel	472	RJD Industries, Incorporated	F
Fiber Pave	325	Hercules, Incorporated	A
FIMCO	18	General Railway Signal Company	W
Five Star Highway Patch	315	United States Grout Corporation	A
Five Star Structural Concrete V/O	414	Five Star Products, Incorporated	A
Flexcon 2000 Joint System	442	R. J. Watson, Incorporated	R
Flex-Lok	252	Midwest Manufacturing Corporation	R
Flexolith	398	Dural International Corporation	A
Flextran	185	Johns-Manville Products Corporation	R
Flo-Mix	149	U. S. Rubber Reclaiming Co., Inc.	W
Fly Ash	96	Chicago Fly Ash Company	R
Fondu	286	Lone Star LaFarge Company	R
Forward	253	Proven Products, Incorporated	A
Four Seasons Bituminous Premix	274	Emulsified Asphalts, Incorporated	A
Franklin Polyester Coating	311	Franklin Steel Company	A

[1] Rejected for wearing surface. Approved for patching.

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Product Name	Number	Manufacturer	Status
FRP Manholes	351	Armco, Incorporated	A
FRP Road Signs	339	Owens-Corning Fiberglas Corporation	A
Ful-Flo	2	Granco Steel Company	R
Gacoflex N-3S	240	Gates Engineering Company, Inc.	R
Gacoflex UWM-28	241	Gates Engineering Company, Inc.	R
Galvalume	307	Bethlehem Steel Corporation	A
Galvashield	493	Vector Corrosion Technologies	F
Garylite	197	United States Steel Corporation	W
Gemcrete	347	Gemite Unique Products, Incorporated	A
Gen-Trac	260	General Tire & Rubber Company	A
Gen-Trac II	349	General Tire & Rubber Company	W
Geoblock Landscaping System	387	Presto Products, Incorporated	R
GeoRidge[**]	**503**	**Nilex Corporation**	**A**
Gering Sewer/Drain Pipe	78	Gering Plastics Company	R
Gilsabind	114	Gilsabind Corporation	R
Glare-Gaard	465	Automotive Safety Transport, Inc.	A
Glare Screen	30	ALCOA	R
Glare Screen	162	Wheeling Corrugating Company	R
Goodyear Full-Depth Rubber Crossing	443	Goodyear Tire and Rubber Company	A
Goodyear Hi-Miler	422	Goodyear Tire and Rubber Company	A
Graffiti Solution System	477	American Polymer Corporation	R
Grappler	473	Virtual Industries, Incorporated	A
Gripstop	140	Gripstop Corporation	W
Guardkote 140	116	Shell Oil Company	R
Guardkote 250	117	Shell Oil Company	A
Halox	356	Hammond Lead Products, Inc.	R
Haydite	198	Western Brick Company	R
Heavy Duty Plastic Apron Endwall[**]	**488**	**Wisconsin Plastic Drain Tile Corp.**	**R**
HFE-90S	344	Bituminous Materials Company, Inc.	A
HFM-P Emulsion Prime	333	Louis Marsch, Incorporated	A
Hi-Dri Cell Guardrail Blockout	234	Energy Absorption Systems, Inc.	R
Highway Striping Epoxy Compounds	289	H. B. Fuller Company	A
Hold-Gro	264	Gulf States Paper Corporation	A
Hollow Shell Median Barriers	331	Lone Star Polymer Concrete Company	W
Homex	69	Homasote Company	A
Homex 300	195	Homasote Company	A
Hot Tape	425	Pave-Mark Corporation	F
Hy-Span	408	Hyway Concrete Pipe Company	A
Hydro-Ban RVN Membrane	235	Hydro-Ban Corporation	R
Hydro Mulch Overspray	337	Conwed Corporation	A

[**] **Change in status**

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Product Name	Number	Manufacturer	Status
Hydro-Plug	105	Camp Company, Incorporated	W
Hydrotube	282	Wheeling Service and Supply, Inc.	R
Hydron 100	204	National Patent Development Corp.	R
Hyload	239	Ruberoid Building Products, Ltd.	R
IBC Mk-7 Barrier	361	International Barrier Corporation	R
I Rock*	**505**	**I Rock of Michigan**	**A**
Industrial Protective Coating	50	Jessop Steel Company	R
Infiltrator	444	Infiltrator Systems, Incorporated	F
Inliner USA	447	Inliner USA, Incorporated	A
Inorganic Zinc Primer No. 1302	218	Jordan Paint Manufacturing Co., Inc.	W
Insituform	348	Insituform Technologies, Incorporated	A
Instant Road Repair	309	Emcol of Illinois, Incorporated	A
Instant Road Repair II	456	Safety Lights Company	A
Isolv	208	Kaiser Agricultural Chemicals	W
Jeene	413	Jeene Technology Corporation	A
KSA Full-Width Concrete Grade Crossing	449	Koppers-Sherman-Abetong	A
Klean-Kote	40	Orangeburg Manufacturing Company	R
Koppers Concrete Sealer	81	Koppers Company, Incorporated	R
Koppers Sound Barrier	323	Koppers Company, Incorporated	R
Koppers Wear Guard	359	Koppers Company, Incorporated	R
Koppers Wear Guard (Rubber)	409	Koppers Company, Incorporated	R
K-Zinc 531	353	Inorganic Coatings, Incorporated	W
L-300 Snow Fence	354	DuPont Canada, Incorporated	A
Ladder Manholes and Bases	48	C. P. Engineering	R
Lakelite	179	United States Steel Corporation	W
Laykold Heavy Duty Resurfacer	189	Chevron Asphalt Company	A
Lignin LS-50	423	Prince Manufacturing Company	A
Lignin Sulphonate Road Binder	135	W. F. Macklin and Associates	R
Linseed Oil Anti-Spalling Emulsion	144	Sherwin-Williams Company	R
Linseed Oil Curing Compound	177	National Flaxseed Processors Assoc.	R
Lion Colay Asphalt	95	Monsanto Company	R
Lion Nokorode Al-Kote	146	Monsanto Company	A
Lion Nokorode Seal Kote	147	Monsanto Company	A
LO-138	21	General Railway Signal Company	W
Load Transfer Device	62	Acme Highway Products Corporation	R
Lock-Post	386	Pegfence International, Incorporated	W
Low Profile Steel Box Culvert	340	Lane Metal Products Company, Inc.	A
Lustra-Span	13	Monsanto Company	R
Manhole Protector Ring	500	Work Area Protection Corporation	F
Manhole Riser	476	American Highway Products, Ltd.	A
Mari-Crete	203	Atlas Minerals & Chemical Division, ESB, Incorporated	R
Mas-Stik	236	Concrete Products Supply Company	A

* **New item**

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Product Name	Number	Manufacturer	Status
Materialite	175	Material Service Corporation	A
MC Granular Calcium Chloride	136	Michigan Chemical Corporation	R
MDM Drainage Mat (Hydraway)	343	Monsanto Company	R
Melnar-8	265	W. R. Meadows, Incorporated	W
Mesa System	475	Tensar Earth Technologies, Inc.	W
Microfil 8	369	Cabot Corporation	R
Mirafi 140 (PRF 140)	223	Celanese Fibers Marketing Company	A
Mirafi 500X	298	Celanese Fibers Marketing Company	A
Miramat	363	Mirafi, Incorporated	R
Modular Track Span	317	Fel-Pro, Incorporated	W
Mulseal	110	Emulsified Asphalts, Incorporated	A
Multi-Ply System No. 1	101	Air Pressure Dampproofing Service, Inc. of Chicago	R
MWS Emulsified Asphalt Hot Mix	28	Asphalt Emulsions, Incorporated	A
Nalzin 2	357	NL Chemicals	R
Nelson Railchair	400	Nelson Iron Works	A
Neutra-Rust	368	American Sales Company, Inc.	R
Nexon	244	United States Steel Corporation	A
Nexus	138	United States Steel Corporation	R
No-Bel Joint	229	Clow Corporation	A
Noishield	318	Industrial Acoustics Company	R
Nophalt	313	Chem-Krete Corporation	R
Nordel Membrane (Reinforced)	215	E. I. duPont deNemours & Co., Inc.	R
Novadeck 750	170	Novagard Corporation	R
NuPipe	440	Insituform Technologies, Incorporated	F
N. U. Boiled Linseed Oil Emulsion	98	Agricultural Research Service USDA	R
Omni Shimless Grade Crossing	338	Precured RDF Tirefill, Incorporated	A
Omni Standard Concrete Crossing	451	Omni Products, Incorporated	A
Oneida Structural Foam	243	Oneida Manufacturing	R
Osmose K-33	124	Osmose Wood Preserving Company of America, Incorporated	A
Over-Flex	303	Sahuaro Petroleum & Asphalt Co.	A
P-7 Paint	206	Hammond Lead Products, Inc.	R
P-221 Fibers	295	DuPont & Company, Incorporated	R
P300 Erosion Control Blanket	391	North American Green	A
P.A.C.E. Crossing	420	Pittenger and Cook Engineering, Inc.	R
Paczyme	152	Larutan Corporation	R
Para-Plastic (Super) No. 2341-Z	94	Dewey & Almy Division, W. R. Grace and Company	A
Parkco	278	Park Rubber Company	R
Parkco Lag Down Crossing	381	Park Rubber Company	A
Pavajuster	75	Neenah Foundry Company	A
Pave, Pave-Bond	4	Carlisle Chemical Works	A
Pavebrite	85	Neville Chemical Company	R
Pavetech Bridge Joint System	418	Pavetech BJS, Incorporated	R
PE-50	67	Steelcote Manufacturing Company	R

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Product Name	Number	Manufacturer	Status
Pecora 300 Silicone	494	Pecora Corporation	W
Pecora 301 Silicone	498	Pecora Corporation	F
Pec-Mat	482	Greenstreak, Incorporated	A
Peneprime	121	Empire Petroleum Company	R
Pennzsuppress D	458	Pennzoil Products Company	W
Perforated Concrete Tile	281	Economy Tile Company	W
Perma-Bind	211	Larutan Corporation	R
Permabit 60	249	Briggs Amasco, Limited	R
Permafused	158	Anchor Post Products, Incorporated	A
Perma Loc	341	Johns-Manville Products Corporation	A
Perma-Soil	375	Ditch Witch, Incorporated	R
PetroMat	191	Phillips Petroleum Company	A
Petroset AT	190	Phillips Petroleum Company	R
Pigmented Pitt-LOC	143	PPG Industries	R
Pioneer 507	169	Daubert Chemical Company	A
Pittguard DTR	378	PPG Industries	W
Placewel R	118	Union Carbide Corporation	W
Plasti-Flo	258	Penn-Barks Corporation	R
Plastic-Bore	376	Lane Metal Products Company, Inc.	A
Plastic-Coated Dowel Bars	137	Republic Steel Corporation	R
Plastiment	52	Sika Corporation	W
Plastix SD	272	Prismo Universal Corporation	A
Pliopave L-30	173	Goodyear Tire & Rubber Company	R
Pliopave L-170	174	Goodyear Tire & Rubber Company	A
Poly-Filter X	255	Carthage Mills, Incorporated	A
Poly-Tite	183	Sandell Manufacturing Company, Inc.	R
Poly Vinyl Steel	163	Wheeling Services and Supply, Inc.	R
PolyDrain	467	ABT, Incorporated	A
Polyguard No. 857-G Membrane	214	Polyguard Pipeline Products, Inc.	R
Polysar Latex	324	Polysar, Incorporated	A
Poroswall	7	Walker Poroswall Pipe Company	R
Poroswall Pipe	394	Walker Poroswall Pipe Company	R
Portland Cement Paint	51	Glidden Company	R
Poz-Loc Post and Socket Assembly	384	Southwestern Pipe, Incorporated	A
Pozzolith 100-HE	210	Master Builders, Incorporated	A
Pozzolith 100-XR	127	Master Builders, Incorporated	W
PPI Rubber Interface	481	Performance Polymers, Incorporated	A
Preformed Paving Sheets	100	Johns-Manville Products Corporation	R
Premier Advanced Panel	464	Premier Concrete Railroad Crossing	A
Presstite No. 357.5	73	Presstite Division, Interchemical Corp.	A
Pressure Relief Joint	133	W. R. Meadows, Incorporated	R
PRF 140 (Mirafi 140)	223	Mirafi, Incorporated	A
Prismoseal A2	328	Prismo Universal Corporation	R
Pro-Seal 968	79	Coast Pro-Seal and Manufacturing Co.	R
Protecto Wrap M-400 Membrane	213	Protecto Wrap Company	R

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Product Name	Number	Manufacturer	Status
PS 100 Mulch Blanket	419	Proseed (U.S.A.), Incorporated	R
PVC Underdrain	261	Hurlbut Plastic Pipe Corporation	A
Pyrament 505	397	Pyrament/Lone Star Industries, Inc.	W
Pyramid	454	The Reinforced Earth Company	A
Quick-Set	104	Camp Company, Incorporated	R
Quick Stab	499	Contech Construction Products	A
Quick-Wedge	460	Erico, Incorporated	R
Quik Rok	280	Preco Industries, Incorporated	W
R-1000 Repaver	44	Cutler Engineering	A
Railguard	26	Eagle Signal Company	R
Railroad Prefabricated Crossing Shunt Panel	437	Fite Corporation	W
Ralumac Micro-Surfacing	404	Midwest Ralumac	A
Ramflex	59	U. S. Rubber Reclaiming Co., Inc.	R
REACT 350	459	Roadway Safety Service, Incorporated	A
Reclamite	22	Witco Chemical Company	R
Red Hawk Full Depth Rubber Crossing	406	Red Hawk Rubber Company	A
Reflex Rubber Expansion Joint	492	J. D. Russell Company	A
Resin Coated Glass Fabric	182	Burlington Glass Fabrics Company	A
Resincore	103	Rock Island Corporation	R
Rheocrete 222+	471	Master Builders, Incorporated	A
Rhoplex E-300	128	Rohm and Haas Company	R
Rhoplex MC-4530	60	Rohm and Haas Company	W
Ritza Glaretamer	291	Julius Koch USA, Incorporated	R
Road Logger	25	Lane-Wells Company	R
Roadglas	321	Owens-Corning Fiberglas Corporation	A
Roadpatch	231	Standard Dry Wall Products, Inc.	W
Roadsaver Silicone 34902	461	Crafco, Incorporated	R
Roadsaver Silicone 34903	462	Crafco, Incorporated	R
Rockbond	355	Elborg Technology Company	A
Rosphalt 50	352	Royston Laboratories, Incorporated	R
Royston Bridge Membrane No. 10	212	Royston Laboratories, Incorporated	R
Rub-R-Road R-504	91	Firestone Tire and Rubber Company	A
Rub-R-Road R-526	129	Firestone Tire and Rubber Company	R
Rubber Calk 3105	112	Products Research and Chemical Corporation	R
Rubber Railroad Crossing	227	Goodyear Tire and Rubber Company	A
SA-1	90	Central Chemical Company	R
SACI Corrosion Inhibitor	412	Witco Chemical Company	A
Saf & Dri	248	Structural Rubber Products Company	A
Saf & Dri Model-C	320	Structural Rubber Products Company	A
Safebrite Reflector	70	Anderson Safeway Guard Rail Corp.	A
SC150 Erosion Control Blanket	470	North American Green	A
Scotchkote Resin No. 117	220	Minnesota Mining & Manufacturing Co.	R
Scotchkote Resin No. 202	251	Minnesota Mining & Manufacturing Co.	A

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Sealer-Healer 1540 Monomer	401	Rohm and Haas Company	R
Sealtight WP-45	92	W. R. Meadows, Incorporated	A
Semperit Bodan Grade Crossing	288	Meadowbrook Enterprises, Inc.	R
Sentre Guardrail Terminal	392	Energy Absorption Systems, Inc.	W
Set 45	299	Set Products, Incorporated	A
Set Instant Concrete Repair	232	Set Products, Incorporated	A
Set Non-Shrink Grout	287	Set Products, Incorporated	A
Sika Set	109	Sika Corporation	R
Silicoflex	479	R. J. Watson, Incorporated	W
Silicone Alkyd	256	Dow Corning Corporation	A
Silt-Saver Frame & Filter Assembly*	**506**	**Silt-Saver, Incorporated**	**F**
Siltsack	453	Atlantic Construction Fabrics, Inc.	W
Slurry Seal	122	International Slurry Seal Association	R
Slurry Seal	167	International Slurry Seal Association	A
SM-100 (Dow Modifier A)	155	Dow Chemical Company	A
Smooth Cor	382	Caldwell Culvert Company	A
Sno-Strap	396	Signode Corporation	R
Sodium Chloride Stabilization	123	Morton Salt Company	R
Soil Retention Blanket	53	American Excelsior Company	A
Solar-Laglugel	319	NHI, Limited	R
Sonocure	42	DeSoto Chemical Coatings	R
Sound Off	428	Crane/Cor Tec Company	W
Soundcore	455	Advanced Storage Technology	A
Southern Main Line Crossing	372	Structural Rubber Products Company	A
SP-3	99	Slip-Pruf Service Corporation	R
Spectrem 800	501	Tremco, Incorporated	F
Speed Crete	57	Concrete Maintenance Products, Inc.	R
Speed Crete	126	Tamms Industries, Incorporated	A
Spiral Rib Pipe	371	Pacific Spiral Rib Pipe	A
Spirolite	346	Spiral Engineered Systems	A
Spraygrip	180	Prismo Universal Corporation	W
SRP Water Borne Vinyl	426	Glidden Company	W
SS-40 Fence Pipe	259	Allied Tube and Conduit Corporation	A
Sta-Tuft	233	Environmental Products Corporation	R
Stainless Hel-Cor	58	Armco, Incorporated	R
Stamark	276	Minnesota Mining & Manufacturing Co.	A
Stamark Detour Grade	322	Minnesota Mining & Manufacturing Co.	A
Stanray Inlet	47	Stanray Corporation	A
Startrack II	430	D & M Concrete of Carolina	A
Steel Furnace Slag	89	Illinois Slag and Ballast Company	A
Steel Slag	310	Heckett Engineering Company	A
Steelflex SSCM Strip Seal	421	D. S. Brown Company	A
Steelplank	245	Steelplank Corporation	R

* **New item**

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Product Name	Number	Manufacturer	Status
Strail Hi-Rail	350	Gummiwerk-Kraiburg	A
Styrofoam	3	Dow Chemical Company	A
Superflexon Valve Boxes	111	Plymouth Industrial Products	R
SuperGro 758	416	Phillips Fibers Corporation	W
Superseal 4000-HT	242	Superior Products Company, Inc.	A
SVDM	20	General Railway Signal Company	W
SVDT-2	19	General Railway Signal Company	W
Sylvatal 40	178	Glidden-Durkee	A
Sylvax UPM	262	Sylvax Chemical Corporation	A
Synopal	56	Synopal, Limited	R
T-Wall Retaining Wall	439	Neel Company	A
Tapisable	145	L&B/AJB, Incorporated	A
TCA Bridge-Cote	168	Textured Coatings of America, Inc.	A
TechStar W-Seal	457	TechStar, Incorporated	R
Teflon Bridge Bearings	15	DuPont and Company, Incorporated	A
Temp Ramp	497	E Z Road, Incorporated	A
Tensar Erosion Mat - NS3000	411	Tensar Corporation	A
Tensar Snowfence	370	Tensar Corporation	A
Terbec C-7	113	Dow Chemical Company	R
Terra-Green	32	Oil Dry Corporation of America	R
Terra Tack II	257	Grass Growers, Incorporated	A
Tex-Tube	141	Tex-Tube Division - Detroit Steel Co.	W
Thiokol 411-M	199	Thiokol Chemical Corporation	R
Thompson's Water Seal	273	E. A. Thompson Company, Inc.	R
Tie Collar Assembly	399	Sibley Machine & Foundry Corporation	R
TIMCO	17	General Railway Signal Company	W
TM-700 Tree Mover	83	Vermeer Manufacturing Company	W
Topcoat Polyester Powder	379	Armstrong Products Company	W
Track-Span	247	Fel-Pro, Incorporated	R
Traffic Signal Cable	35	General Electric Company	A
Traffix	150	Pace Products, Incorporated	W
Transite Storm Sewer	125	Johns-Manville Products Corporation	R
Transite Underdrain Pipe	71	Johns-Manville Products Corporation	R
Trevira	269	Hoechst Fibers Industries	A
Tri-Dar 33	148	Darling and Company	R
Tri-Kote 18	80	T. K. Products, Incorporated	R
Tri-Kote 26	16	T. K. Products, Incorporated	A
Tri-Lock	393	American Excelsior Company	A
Triangular Silt Dike System	483	Triangular Silt Dike Company	A
Trinidad Asphalt	217	Great Lakes Asphalt, Incorporated	W
TruFlow	463	Owens-Corning Corporation	F
Tropilon Black	159	Tropical Paint Company	W
Truss Pipe	184	Armco, Incorporated	R
Tufchem	176	Pennwalt Corporation	R
Tufchem Membrane	193	Pennwalt Corporation	R
UCAR	209	Union Carbide Corporation	A

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Product Name	Number	Manufacturer	Status
UL-29 Liquid Ice Melter	161	United Laboratories, Incorporated	W
Ultra-Rib	405	Extrusion Technologies, Incorporated	A
Ultraliner	502	Ultraliner, Incorporated	A
Unelko Water Repellent	164	Unelko Corporation	R
Uni-Pak	270	Mobil Chemical Company	R
Union Pacific Precast Concrete Road Crossing	448	Union Pacific Railroad Company	R
Uniroyal Flexible Membrane 6125	172	Uniroyal, Incorporated	R
Uniroyal Railroad Crossing	277	Uniroyal, Incorporated	W
Urecal	157	Urecal Corporation	R
Urethane Expansion Joint	14	Barrett Division-Allied Chemical Corp.	R
Urox	108	Barrett Division-Allied Chemical Corp.	A
V-Loc Socket System	342	Foresight Industries, Incorporated	W
Vehicle Attenuator Terminal	395	Syro Steel Company	W
Verdyol XTRA Standard	468	Verdyol Alabama, Incorporated	A
Verglimit	302	P. K. Distributing Company	R
Versa-Lok Retaining Wall System	438	Bend Industries/Ampress	A
Verti-Pro	491	Alpine Stormwater Management Co.	W
Vitrachem	1	Logan Clay Products	A
Wabo Two Part Silicone Sealant	489	Watson Bowman Acme Corporation	A
Weathercote T	219	Medallion Corporation	A
Welded Beam Guardrail Post	327	Welded Beam Corporation	A
Welded Culvert Pipe	93	Young Metal Products, Incorporated	A
Weyerhaeuser Glulam	316	Weyerhaeuser Company	W
Witcogard	23	Witco Chemical Company	A
Xorex Steel Fibers	427	Novocon International, Incorporated	R
XR-6-5046	131	Dow Corning Company	R
Z Clip	478	International Fence Systems, LLC	W
Zemdrain MD2	487	DuPont & Company, Incorporated	A

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Manufacturer	Product Name	Number
General Tire and Rubber Company	Gen-Trac II	349
Gering Plastics Company	Gering Sewer/Drain Pipe	78
Gilsabind Corporation	Gilsabind	114
Glidden Company	Portland Cement Paint	51
Glidden Company	SRP Water Borne Vinyl	426
Glidden-Durkee	Sylvatal 40	178
Goodyear Tire and Rubber Company	Goodyear Full-Depth Rubber Crossing	443
Goodyear Tire and Rubber Company	Goodyear Hi-Miler	422
Goodyear Tire and Rubber Company	Pliopave L-30	173
Goodyear Tire and Rubber Company	Pliopave L-170	174
Goodyear Tire and Rubber Company	Rubber Railroad Crossing	227
Gordon Bartels Company	Acroflex	63
W. R. Grace and Company	Bituthene (Heavy Duty)	226
W. R. Grace and Company	Daraweld C	119
W. R. Grace and Company	Darex Corrosion Inhibitor	305
W. R. Grace and Company-Dewey & Almy Division	Para-Plastic (Super) No. 2341-Z	94
Granco Steel Company	Ful-Flo	2
Grass Growers, Incorporated	Terra Tack II	257
Great Lakes Asphalt, Incorporated	Trinidad Asphalt	217
Gripstop Corporation	Gripstop	140
Gulf States Paper Corporation	Hold-Gro	264
Gummiwerk-Kraiburg	Strail Hi-Rail	350
Hammond Lead Products, Incorporated	Halox	356
Hammond Lead Products, Incorporated	P-7 Paint	206
Hastings Pavement Company, Inc	Checker Block	275
Heckett Engineering Company	Steel Slag	310
Hercules, Incorporated	Fiber Pave	325
Hoechst Fibers Industries	Bidim (Trevira)	269
Hoechst Fibers Industries	Trevira	269
Homasote Company	Homex	69
Homasote Company	Homex 300	195
Hurlbut Plastic Pipe Corporation	PVC Underdrain	261
Hydro-Ban Corporation	Hydro-Ban RVN Membrane	235
Hydro-Turf and Associates, Incorporated	Conlock Concrete Blocks	415
Hyway Concrete Pipe Company	Hy-Span	408
I Rock of Michigan	**I Rock***	**505**
Illinois Corrugated Steel Pipe Assoc., Inc.	Corrugated Steel Storm Sewer Pipe	267
Illinois Slag and Ballast Company	Steel Furnace Slag	89
Industrial Acoustics Company	Noishield	318
Infiltrator Systems, Incorporated	Infiltrator	444
Inland Steel Company	Blac-Klad	254

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Preco Industries, Incorporated	Quik Rok	280
Precured RDF Tirefill, Incorporated	Omni Shimless Grade Crossing	338
Preform Parking Engineers, Incorporated	Epoxy Traffic Paint	65
Presstite Division Interchemical Corp.	Presstite No. 357.5	73
Presto Products, Incorporated	Geoblock Landscaping System	387
Prince Manufacturing Company	Lignin LS-50	423
Prismo Universal Corporation	Plastix SD	272
Prismo Universal Corporation	Prismoseal A2	328
Prismo Universal Corporation	Spraygrip	180
Products Research and Chemical Corp.	Rubber Calk 3105	112
Proseed (U.S.A.), Incorporated	PS 100 Mulch Blanket	419
Protecto Wrap Company	Protecto Wrap M-400 Membrane	213
Proven Products, Incorporated	Forward	253
Pyrament/Lone Star Industries Inc.	Pyrament 505	397
Railroad Friction Products Corporation	Cobra-X	358
The Reardon Company	Bondex Concrete Patch	66
Red Hawk Rubber Company	Red Hawk Full Depth Rubber Crossing	406
H. B. Reed and Company, Incorporated	Black Beauty	33
The Reinforced Earth Company	Durisol	441
The Reinforced Earth Company	Pyramid	454
Republic Powdered Metals	Alumanation No. 301	165
Republic Steel Corporation	Plastic-Coated Dowel Bars	137
Rexius Forest By-Products, Inc.	EcoBlanket	504
Rock Island Corporation	Resincore	103
Rohm and Haas Company	Rhoplex E-300	128
Rohm and Haas Company	Rhoplex MC-4530	60
Rohm and Haas Company	Sealer-Healer 1540 Monomer	401
Royston Laboratories, Incorporated	Rosphalt 50	352
Royston Laboratories, Incorporated	Royston Bridge Membrane No. 10	212
Ruberoid Company, Limited	Hyload	239
J. D. Russell Company	Reflex Rubber Expansion Joint	492
S & D Products, Incorporated	Eeesy Grow	54
Sahuaro Petroleum and Asphalt Company	Over-Flex	303
St. Regis Culvert, Incorporated	Aluminized Steel Type 1 CMP	486
Sandell Manufacturing Company, Inc.	Poly-Tite	183
Set Products, Incorporated	Set 45	299
Set Products, Incorporated	Set Instant Concrete Repair	232
Set Products, Incorporated	Set Non-Shrink Grout	287
Shell Oil Company	Dutrex 757	314
Shell Oil Company	Guardkote 140	116

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Manufacturer	Product Name	Number
Shell Oil Company	Guardkote 250	117
Sherwin-Williams Company	Linseed Oil Anti-Spalling Emulsion	144
Sibley Machine and Foundry Corporation	Tie Collar Assembly	399
Signode Corporation	Sno-Strap	396
Sika Corporation	Colma Membrane Compound	120
Sika Corporation	Plastiment	52
Sika Corporation	Sika Set	109
Silbrico Corporation	All-Weather Crete HI-45	102
Silt-Saver, Incorporated	**Silt-Saver Frame & Filter Assembly***	**506**
Slip-Pruf Service Corporation	SP-3	99
Sonoco Products Company	Duropipe Fiber Vaults	97
Sonoco Products Company	Duropipe Sectional Slope Drain	72
Southwest Research Institute	Epoflex	301
Southwestern Pipe, Incorporated	Poz-Loc Post and Socket Assembly	384
Spiral Engineered Systems	Spirolite	346
Springbok Corporation	Express Repair	139
Standard Dry Wall Products, Incorporated	Roadpatch	231
Stanray Corporation	Stanray Inlet	47
Steelcote Manufacturing Company	PE-50	67
Steelplank Corporation	Steelplank	245
Storey Brothers and Company, Limited	Butylfelt	238
Structural Rubber Products Company	Saf & Dri	248
Structural Rubber Products Company	Saf & Dri Model-C	320
Structural Rubber Products Company	Southern Main Line Crossing	372
Superior Products Company, Incorporated	Superseal 4000-HT	242
Superior Sealers Company	Asphaltic Mastic Rope	237
Sylvax Chemical Corporation	Sylvax UPM	262
Synopal, Limited	Synopal	56
Syro Steel Company	Vehicle Attenuator Terminal	395
Szarka Enterprises, Incorporated	Fab-Ra-Cast	228
T. K. Products, Incorporated	Tri-Kote 18	80
T. K. Products, Incorporated	Tri-Kote 26	16
Tamms Industries, Incorporated	Speed Crete	126
TechStar, Incorporated	TechStar W-Seal	457
Templar, Incorporated	Bridge Kote No. 50	134
Tensar Corporation	Tensar Erosion Mat - NS3000	411
Tensar Corporation	Tensar Snowfence	370

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Tex-Crete, Incorporated	Dylex Latex 1186	285
Tex-Tube Division-Detroit Steel Company	Tex-Tube	141
Textured Coating of America, Incorporated	TCA Bridge-Cote	168
Thiokol Chemical Corporation	Thiokol 411-M	199
E. A. Thompson Company, Incorporated	Thompson's Water Seal	273
Tremco, Incorporated	Spectrem 800	501
Tropical Paint Company	Tropilon Black	159
Ultraliner, Incorporated	Ultraliner	502
Unelko Corporation	Unelko Water Repellent	164
Union Carbide Corporation	Placewel R	118
Union Carbide Corporation	UCAR	209
Uniroyal, Incorporated	Uniroyal Flexible Membrane 6125	172
Uniroyal, Incorporated	Uniroyal Railroad Crossing	277
United Laboratories, Incorporated	UL-29 Liquid Ice Melter	161
United States Grout Corporation	Five Star Highway Patch	315
United States Gypsum Company	Duracal	202
United States Gypsum Company	Expand X	45
U. S. Rubber Reclaiming Company, Inc.	Flo-Mix	149
U. S. Rubber Reclaiming Company, Inc.	Ramflex	59
United States Steel Corporation	Chain Link Fence Glare Screen	306
United States Steel Corporation	Cor-Ten Guard Rail	8
United States Steel Corporation	Garylite	197
United States Steel Corporation	Lakelite	179
United States Steel Corporation	Nexon	244
United States Steel Corporation	Nexus	138
Universal Oil Products Company	Copper Smelter Slag	250
Urecal Corporation	Urecal	157
Vector Corrosion Technologies	Galvashield	493
Vermeer Manufacturing Company	TM-700 Tree Mover	83
Vibroflotation Foundation Company	Alidrain	296
Walker Poroswall Pipe Company	Poroswall	7
Walker Poroswall Pipe Company	Poroswall Pipe	394
Walsh and Kelly, Incorporated	Cold Mix BAM	181
R. J. Watson, Incorporated	Flexcon 2000 Joint System	442
Watson Bowman Acme Corporation	Wabo Two Part Silicone Sealant	489
Welch Products, Incorporated	DuroTrim	496
Welded Beam Corporation	Welded Beam Guardrail Post	327
Western Brick Company	Haydite	198
Weyerhaeuser Company	Weyerhaeuser Glulam	316
Wheeling Corrugating Company	Glare Screen	162

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Product Name	Number	Manufacturer	Status
AGGREGATE			
Black Beauty	33	H. B. Reed & Company, Incorporated	A
Boiler Slag	55	Combustion By-Products Company	A
Copper Smelter Slag	250	Universal Oil Products Company	R
Fly Ash	96	Chicago Fly Ash Company	A
Garylite	197	United States Steel Corporation	W
Haydite	198	Western Brick Company	R
Lakelite	179	United States Steel Corporation	W
Materialite	175	Material Service Corporation	A
Steel Furnace Slag	89	Illinois Slag and Ballast Company	A
Steel Slag	310	Heckett Engineering Company	A
Styrofoam	3	Dow Chemical Company	A
Synopal	56	Synopal, Limited	R
BITUMINOUS MATERIALS			
All-Weather Crete HI-45	102	Silbrico Corporation	A
Asbestos Thin Overlay	38	Johns-Manville Products Corporation	R
Asphadur (Stab. Additive 5990)	300	Minnesota Mining & Manufacturing Co.	R
Bituminous Pavement Rejuvenator	221	Koppers Company, Incorporated	R
Bitumuls Cationic Emulsified Asphalts	64	Chevron Asphalt Company	A
Cold Mix BAM	181	Walsh & Kelly, Incorporated	W
Colfix Jet Seal	130	Chevron Asphalt Company	R
Crown-Rite	196	Crown-Trygg Corporation	A
CRS-2S Asphalt Emulsion	332	Bitucote Products Company	R
Cyclogen	297	Witco Chemical Company	A
Delugrip	293	Dunlop, Limited	R
Dutrex 757	314	Shell Oil Company	W
Extrudamat	429	Fiberized Products, Incorporated	A
Fiber Pave	325	Hercules, Incorporated	A
Flo-Mix	149	U. S. Rubber Reclaiming Co., Inc.	W
Four Seasons Bituminous Premix	274	Emulsified Asphalts, Incorporated	A
Gilsabind	114	Gilsabind Corporation	R
Gripstop	140	Gripstop Corporation	W
HFE-90S	344	Bituminous Materials Company, Inc.	A
HFM-P Emulsion Prime	333	Louis Marsch, Incorporated	A
Instant Road Repair	309	Emcol of Illinois, Incorporated	A
Instant Road Repair II	456	Safety Lights Company	A
Laykold Heavy Duty Resurfacer	189	Chevron Asphalt Company	A
Lion Colay Asphalt	95	Monsanto Company	R
Microfil 8	369	Cabot Corporation	R
Mulseal	110	Emulsified Asphalts, Incorporated	A
MWS Emulsified Asphalt Hot Mix	28	Asphalt Emulsions, Incorporated	A

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Product Name	Number	Manufacturer	Status
Nophalt	313	Chem-Krete Corporation	R
Over-Flex	303	Sahuaro Petroleum & Asphalt Co.	A
P-221 Fibers	295	DuPont & Company, Incorporated	R
Pave, Pave-Bond	4	Carlisle Chemical Works	A
Perma-Bind	211	Larutan Corporation	R
PetroMat	191	Phillips Petroleum Company	A
Petroset AT	190	Phillips Petroleum Company	R
Pliopave L-170	174	Goodyear Tire & Rubber Company	A
Polysar Latex	324	Polysar, Incorporated	A
Ralumac Micro-Surfacing	404	Midwest Ralumac	A
Ramflex	59	U. S. Rubber Reclaiming Co., Inc.	R
Reclamite	22	Witco Chemical Company	R
Roadglas	321	Owens-Corning Fiberglas Corporation	A
Rosphalt 50	352	Royston Laboratories, Incorporated	R
Rub-R-Road R-504	91	Firestone Tire and Rubber Company	A
Slurry Seal	122	International Slurry Seal Association	R
Slurry Seal	167	International Slurry Seal Association	A
Solar-Laglugel	319	NHI, Limited	R
Sylvax UPM	262	Sylvax Chemical Corporation	A
Tapisable	145	L&B/AJB, Incorporated	A
Traffix	150	Pace Products, Incorporated	W
Trinidad Asphalt	217	Great Lakes Asphalt, Incorporated	W
Verglimit	302	P. K. Distributing Company	R

DRAINAGE

A-2000	362	Armco, Incorporated	A
Adjus-to-Grade	76	National Utility Products Company	A
ADS End Sections	390	Advanced Drainage Systems	R
Air-O-Form	403	Concepts in Concrete, Incorporated	W
Akwadrain	383	American Wick Drain Company	R
Alidrain	296	Vibroflotation Foundation Company	A
Aluminized Steel Type 1 CMP	486	St. Regis Culvert, Incorporated	L
Aluminized Steel Type 2 CMP	294	Armco, Incorporated	A
Aluminum Box Culvert	304	Kaiser Aluminum, Incorporated	A
Aluminum Culvert (Wide Sheet)	39	Kaiser Aluminum, Incorporated	A
Aluminum Pipe Arch	11	Kaiser Aluminum, Incorporated	A
Aluminum Sectional Plate	46	Kaiser Aluminum, Incorporated	A
Aluminum Storm Sewer	88	Kaiser Aluminum, Incorporated	A
Asphaltic Mastic Rope	237	Superior Sealers Company	A
Bidim (Trevira)	269	Hoechst Fibers Industries	A
Blac-Klad	254	Inland Steel Company	A
Cadilloc	366	Cadilloc External Pipe Joint, Inc.	A
Catch-All, The	495	Mar Mac Manufacturing, Inc.	A
CorBan RPM Liner Pipe	335	Armco, Incorporated	A
Corlix	6	Kaiser Aluminum, Incorporated	A

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Product Name	Number	Manufacturer	Status
Corlix (Perforated)	10	Kaiser Aluminum, Incorporated	A
Corrugated Polyethylene Culvert	308	Advanced Drainage Systems, Inc.	W
Corrugated Steel Pipe	290	National Corrugated Steel Pipe Assoc.	R
Corrugated Steel Storm Sewer Pipe	267	Illinois Corrugated Steel Pipe Assoc.	R
Cretex	201	Cretex Companies, Incorporated	R
Dandy Bag	474	Dandy Products, Incorporated	W
Drain Guard	230	Advanced Drainage of Illinois	A
Dreco PVC Pipe	266	Drainage Engineering Corporation	A
Driscopipe 7600	279	Phillips Products Company, Inc.	A
Duropipe Sectional Slope Drain	72	Sonoco Products Company	R
Enkadrain	367	American Enka Company	R
Enviro Frame	484	Enviromax Rubber, Incorporated	W
Flextran	185	Johns-Manville Products Corporation	R
FRP Manholes	351	Armco, Incorporated	A
Ful-Flo	2	Granco Steel Company	R
Galvalume	307	Bethlehem Steel Corporation	A
Gering Sewer/Drain Pipe	78	Gering Plastics Company	R
Grappler	473	Virtual Industries, Incorporated	F
Heavy Duty Plastic Apron Endwall**	**488**	**Wisconsin Plastic Drain Tile**	**R**
Hy-Span	408	Hyway Concrete Pipe Company	A
Hydrotube	282	Wheeling Service and Supply, Inc.	R
Infiltrator	444	Infiltrator Systems, Incorporated	F
Inliner USA	447	Inliner USA, Incorporated	A
Insituform	348	Insituform Technologies, Incorporated	A
Klean-Kote	40	Orangeburg Manufacturing Company	R
Ladder Manholes and Bases	48	C. P. Engineering	R
Low Profile Steel Box Culvert	340	Lane Metal Products Company, Inc.	A
Manhole Riser	476	American Highway Products, Ltd.	F
Mas-Stik	236	Concrete Products Supply Company	A
MDM Drainage Mat (Hydraway)	343	Monsanto Company	R
Mirafi 140 (PRF 140)	223	Celanese Fibers Marketing Company	A
Mirafi 500X	298	Celanese Fibers Marketing Company	A
Nexon	244	United States Steel Corporation	A
No-Bel Joint	229	Clow Corporation	A
NuPipe	440	Insituform Technologies, Incorporated	F
Pavajuster	75	Neenah Foundry Company	A
Perforated Concrete Tile	281	Economy Tile Company	W
Perma Loc	341	Johns-Manville Products Corporation	A
Plasti-Flo	258	Penn-Barks Corporation	R
Plastic-Bore	376	Lane Metal Products Company, Inc.	A
Poly-Filter X	255	Carthage Mills, Incorporated	A
PolyDrain	467	ABT, Incorporated	A

** **Change in status**

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Poroswall	7	Walker Poroswall Pipe Company	R
Poroswall Pipe	394	Walker Poroswall Pipe Company	R
PRF 140 (Mirafi 140)	223	Mirafi, Incorporated	A
PVC Underdrain	261	Hurlbut Plastic Pipe Corporation	A
Quick Stab	499	Contech Construction Products	A
Silt-Saver Frame & Filter Assembly*	**506**	**Silt-Saver, Incorporated**	**F**
Siltsack	453	Atlantic Construction Fabrics, Inc.	W
Smooth Cor	382	Caldwell Culvert Company	A
Spiral Rib Pipe	371	Pacific Spiral Rib Pipe	A
Spirolite	346	Spiral Engineered Systems	A
Stainless Hel-Cor	58	Armco, Incorporated	R
Stanray Inlet	47	Stanray Corporation	A
Transite Storm Sewer	125	Johns-Manville Products Corporation	R
Transite Underdrain Pipe	71	Johns-Manville Products Corporation	R
Trevira	269	Hoechst Fibers Industries	A
TruFlow	463	Owens-Corning Corporation	F
Truss Pipe	184	Armco, Incorporated	R
Ultra-Rib	405	Extrusion Technologies, Incorporated	A
Ultraliner	502	Ultraliner, Incorporated	A
Verti-Pro	491	Alpine Stormwater Management Co.	W
Vitrachem	1	Logan Clay Products	A
Welded Culvert Pipe	93	Young Metal Products, Incorporated	A
		EQUIPMENT	
Cline Rolling Straightedge	68	Frank Cline Tractor Company	R
Concut Bump Cutter	41	Concut, Incorporated	W
Concrete Planer	84	Christensen Diamond Products Co.	R
R-1000 Repaver	44	Cutler Engineering	A
Road Logger	25	Lane-Wells Company	R
TM-700 Tree Mover	83	Vermeer Manufacturing Company	W
		JOINTS	
Black Magic CPR	246	Pavon Corporation	R
Ceramar	345	W. R. Meadows, Incorporated	A
CRF Crack Filler	329	Witco Chemical Company	R
Dow Corning 888	445	Dow Corning Corporation	A
Dow Corning 890-SL	446	Dow Corning Corporation	R
Ethafoam	142	Dow Chemical Company	A
FiberDowel	472	RJD Industries, Incorporated	F
Flex-Lok	252	Midwest Manufacturing Corporation	R
Homex	69	Homasote Company	A

* **New item**

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Product Name	Number	Manufacturer	Status
Homex 300	195	Homasote Company	A
Load Transfer Device	62	Acme Highway Products Corporation	R
Para-Plastic (Super) No. 2341-Z	94	Dewey & Almy Division, W. R. Grace and Company	A
Pecora 300 Silicone	494	Pecora Corporation	W
Pecora 301 Silicone	498	Pecora Corporation	F
Plastic-Coated Dowel Bars	137	Republic Steel Corporation	R
Poly-Tite	183	Sandell Manufacturing Company, Inc.	R
Presstite No. 357.5	73	Presstite Division, Interchemical Corp.	A
Pressure Relief Joint	133	W. R. Meadows, Incorporated	R
Prismoseal A2	328	Prismo Universal Corporation	R
Pro-Seal 968	79	Coast Pro-Seal and Manufacturing Co.	R
Reflex Rubber Expansion Joint	492	J. D. Russell Company	A
Roadsaver Silicone 34902	461	Crafco, Incorporated	R
Roadsaver Silicone 34903	462	Crafco, Incorporated	R
Rubber Calk 3105	112	Products Research and Chemical Corp.	R
Scotchkote Resin No. 202	251	Minnesota Mining & Manufacturing Co.	A
Spectrem 800	501	Tremco, Incorporated	F
Urethane Expansion Joint	14	Barrett Division-Allied Chemical Corp.	R

PORTLAND CEMENT CONCRETE

Acroflex	63	Gordon Bartels Company	W
Albitol	292	American Vamag Company, Inc.	W
Anti-Hydro	205	Anti-Hydro Waterproofing Company	R
Barrier	156	National Chemical Corporation	R
Bondex Concrete Patch	66	The Reardon Company	R
CDC Plastic Concrete	86	Concrete Development Corporation	W
ChemComp	87	Medusa Portland Cement Company	W
Chem-Trete BSM	330	Dynamit Nobel	W
Colma Membrane Compound	120	Sika Corporation	R
Colorcrete	12	W. E. Dunn Manufacturing Company	R
Confilm	82	Master Builders, Incorporated	R
Creto	200	Creto International	R
Custom Rock Form Liner System	436	Custom Rock International	A
Daraweld C	119	W. R. Grace and Company	R
Darex Corrosion Inhibitor	305	W. R. Grace and Company	A
Dow Corning 777	29	Dow Corning Corporation	R
Duracal	202	United States Gypsum Company	A
Elastizell Concrete	312	Elastizell Corporation of America	A
Epoxy Modified Concrete	326	Celanese Resins	W
Express Repair	139	Springbok Corporation	W
Far-Go Swift-Set	106	Dry Mix Concrete Company	R
Far-Go Vinyl Patching Compound	43	Dry Mix Concrete Company	R
Fast-Set Pre-Krete	151	Pocono Fabricators, Incorporated	W
Five Star Highway Patch	315	United States Grout Corporation	A

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Product Name	Number	Manufacturer	Status
Five Star Structural Concrete V/O	414	Five Star Products, Incorporated	A
Fondu	286	Lone Star LaFarge Company	R
Gemcrete	347	Gemite Unique Products, Incorporated	A
Hydro-Plug	105	Camp Company, Incorporated	W
Hydron 100	204	National Patent Development Corp.	R
Koppers Concrete Sealer	81	Koppers Company, Incorporated	R
Linseed Oil Anti-Spalling Emulsion	144	Sherwin-Williams Company	R
Linseed Oil Curing Compound	177	National Flaxseed Processors Assoc.	R
Mari-Crete	203	Atlas Minerals & Chemical Division, ESB, Incorporated	R
N. U. Boiled Linseed Oil Emulsion	98	Agricultural Research Service USDA	R
PE-50	67	Steelcote Manufacturing Company	R
Placewel R	118	Union Carbide Corporation	W
Plastiment	52	Sika Corporation	W
Pozzolith 100-HE	210	Master Builders, Incorporated	A
Pozzolith 100-XR	127	Master Builders, Incorporated	W
Pyrament 505	397	Pyrament/Lone Star Industries, Inc.	W
Quick-Set	104	Camp Company, Incorporated	R
Quick-Wedge	460	Erico, Incorporated	R
Quik Rok	280	Preco Industries, Incorporated	W
Roadpatch	231	Standard Dry Wall Products, Inc.	W
Rockbond	355	Elborg Technology Company	A
Rheocrete 222+	471	Master Builders, Incorporated	A
Rhoplex E-300	128	Rohm and Haas Company	R
Rhoplex MC-4530	60	Rohm and Haas Company	W
Sealtight WP-45	92	W. R. Meadows, Incorporated	A
Set 45	299	Set Products, Incorporated	A
Set Instant Concrete Repair	232	Set Products, Incorporated	A
Set Non-Shrink Grout	287	Set Products, Incorporated	A
Sika Set	109	Sika Corporation	R
Sonocure	42	DeSoto Chemical Coatings	R
Speed Crete	57	Concrete Maintenance Products, Inc.	R
Speed Crete	126	Tamms Industries, Incorporated	A
Sylvatal 40	178	Glidden-Durkee	A
Thompson's Water Seal	273	E. A. Thompson Company, Inc.	R
Tri-Dar 33	148	Darling and Company	R
Tri-Kote 18	80	T. K. Products, Incorporated	R
Tri-Kote 26	16	T. K. Products, Incorporated	A
Tufchem	176	Pennwalt Corporation	R
Unelko Water Repellent	164	Unelko Corporation	R
Xorex Steel Fibers	427	Novocon International, Incorporated	R
XR-6-5046	131	Dow Corning Company	R
Zemdrain MD2	487	DuPont & Company, Incorporated	A

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Product Name	Number	Manufacturer	Status
PROTECTIVE AND DECORATIVE COATINGS			
Alumanation No. 301	165	Republic Powdered Metals	A
Basic Lead Silico Chromate	49	Eagle Picher Company	R
Bridge Kote No. 50	134	Templar, Incorporated	R
Busan 11-M1	373	Buckman Laboratories, Incorporated	R
Carbo Zinc 11	171	Carboline Company	A
Carbomastic 15	380	Carboline Company	A
Chemprime	154	Al-Con Chemical Company	R
Daugard	23	Daubert Chemical Company	A
Dimetcote E-Z	207	Ameron Corrosion Control Division	R
Empigard	263	Empire Plating Company	R
Farbertite	107	Briggs Bituminous Composition Co.	R
Franklin Polyester Coating	311	Franklin Steel Company	A
Graffiti Solution System	477	American Polymer Corporation	R
Halox	356	Hammond Lead Products, Incorporated	R
Industrial Protective Coating	50	Jessop Steel Company	R
Inorganic Zinc Primer No. 1302	218	Jordan Paint Manufacturing Co., Inc.	W
K-Zinc 531	353	Inorganic Coatings, Incorporated	R[1]
Lion Nokorode Al-Kote	146	Monsanto Company	A
Lion Nokorode Seal Kote	147	Monsanto Company	A
Nalzin 2	357	NL Chemicals	R
Neutra-Rust	368	American Sales Company, Inc.	R
Osmose K-33	124	Osmose Wood Preserving Company of America, Incorporated	A
P-7 Paint	206	Hammond Lead Products, Inc.	R
Pigmented Pitt-LOC	143	PPG Industries	R
Pioneer 507	169	Daubert Chemical Company	A
Pittguard DTR	378	PPG Industries	W
Poly Vinyl Steel	163	Wheeling Services and Supply, Inc.	R
Portland Cement Paint	51	Glidden Company	R
SACI Corrosion Inhibitor	412	Witco Chemical Company	A
Scotchkote Resin No. 117	220	Minnesota Mining & Manufacturing Co.	R
Sealer-Healer 1540 Monomer	401	Rohm and Haas Company	R
Silicone Alkyd	256	Dow Corning Corporation	A
SRP Water Borne Vinyl	426	Glidden Company	W
TCA Bridge-Cote	168	Textured Coatings of America, Inc.	A
Topcoat Polyester Powder	379	Armstrong Products Company	W
Uni-Pak	270	Mobil Chemical Company	R
Urecal	157	Urecal Corporation	R
Weathercote T	219	Medallion Corporation	A
Witcogard	23	Witco Chemical Company	A
RAILROAD CROSSINGS			

[1] One coat rejected. Three coat withdrawn.

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Product Name	Number	Manufacturer	Status
Blacksmith Shunt Free Concrete Crossing	450	Blacksmith Railroad Supply	W
Century Precast Concrete Railroad Crossing	417	Century Precast	R
Century Precast Frameless Concrete Railroad Crossing	466	Century Precast	A
Cobra-X	358	Railroad Friction Products Corporation	R
Epflex Railseal Interface	388	Epton Industries, Incorporated	A
Fab-Ra-Cast	228	Szarka Enterprises, Incorporated	A
Gen-Trac	260	General Tire & Rubber Company	A
Gen-Trac II	349	General Tire & Rubber Company	W
Goodyear Full-Depth Rubber Crossing	443	Goodyear Tire and Rubber Company	A
Goodyear Hi-Miler	422	Goodyear Tire and Rubber Company	A
Koppers Wear Guard	359	Koppers Company, Incorporated	R
Koppers Wear Guard (Rubber)	409	Koppers Company, Incorporated	R
KSA Full-Width Concrete Grade Crossing	449	Koppers-Sherman-Abetong	A
Modular Track Span	317	Fel-Pro, Incorporated	W
Nelson Railchair	400	Nelson Iron Works	A
Omni Shimless Grade Crossing	338	Precured RDF Tirefill, Incorporated	A
Omni Standard Concrete Crossing	451	Omni Products, Incorporated	A
Oneida Structural Foam	243	Oneida Manufacturing	R
P.A.C.E. Crossing	420	Pittenger and Cook Engineering, Inc.	R
Parkco	278	Park Rubber Company	R
Parkco Lag Down Crossing	381	Park Rubber Company	A
PPI Rubber Interface	481	Performance Polymers, Incorporated	A
Premier Advanced Panel	464	Premier Concrete Railroad Crossing	A
Railroad Prefabricated Crossing Shunt Panel	437	Fite Corporation	W
Red Hawk Full Depth Rubber Crossing	406	Red Hawk Rubber Company	A
Rubber Railroad Crossing	227	Goodyear Tire and Rubber Company	A
Saf & Dri	248	Structural Rubber Products Company	A
Saf & Dri Model-C	320	Structural Rubber Products Company	A
Semperit Bodan Grade Crossing	288	Meadowbrook Enterprises, Inc.	R
Southern Main Line Crossing	372	Structural Rubber Products Company	A
Startrack II	430	D & M Concrete of Carolina	A
Steelplank	245	Steelplank Corporation	R
Strail Hi-Rail	350	Gummiwerk-Kraiburg	A
Tie Collar Assembly	399	Sibley Machine & Foundry Corporation	R
Track-Span	247	Fel-Pro, Incorporated	R
Union Pacific Precast Concrete Road Crossing	448	Union Pacific Railroad Company	R

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Product Name	Number	Manufacturer	Status
Uniroyal Railroad Crossing	277	Uniroyal, Incorporated	W
Weyerhaeuser Glulam	316	Weyerhaeuser Company	W

ROADSIDE DEVELOPMENT

Aluminized Steel Type 2 Fence Tubing	334	Armco, Incorporated	A
Applegate Mulch	410	Applegate Insulation Manufacturing	A
Aquatain	166	Larutan Corporation	R
Armco Noise Barrier	284	Armco, Incorporated	R
Bongossi	377	North American Hacon, Incorporated	R
C350 EC/TRM	469	North American Green	A
Cable Concrete	431	McCann Concrete Products	A
Ceramascape	216	Minnesota Mining & Manufacturing Co.	W
Checker Block	275	Hastings Pavement Company, Inc.	R
Chemgrass	153	Monsanto Company	R
Conlock Concrete Blocks	415	Hydro-Turf and Associates, Inc.	A
Curbstone	365	Curbstone, Incorporated	A
Diamond Wall System	435	Northfield Block Company	A
Dow Mulch Binder	268	Dow Chemical Company	A
Dura-Check	485	Panel Products, Incorporated	R
Durisol	441	The Reinforced Earth Company	A
DuroTrim	496	Welch Products, Incorporated	F
EcoBlanket	504	Rexius Forest By-Products, Inc.	A
Eeesy Grow	54	S & D Products, Incorporated	R
Enkamat	271	American Enka Company	A
EnviroBerm	490	Cascade Distribution, Limited	A
Ero-Mat	374	Armco, Incorporated	A
Erosion Control Netting	336	Conwed Corporation	A
Evercrete Noise Barrier	364	Evercrete, Limited	W
Fabriform Erosion Control Mats	224	Construction Techniques, Incorporated	A
FAST Corner Assembly (Fence)	385	FAST Company	A
Fence-Crete	452	Faddis Concrete Products	R
Geoblock Landscaping System	387	Presto Products, Incorporated	R
GeoRidge[**]	**503**	**Nilex Corportation**	**A**
Hold-Gro	264	Gulf States Paper Corporation	A
Hydro Mulch Overspray	337	Conwed Corporation	A
I Rock[*]	**505**	**I Rock of Michigan**	**A**
Koppers Sound Barrier	323	Koppers Company, Incorporated	R
L-300 Snow Fence	354	DuPont Canada, Incorporated	A
Lock-Post	386	Pegfence International, Incorporated	W
Mesa System	475	Tensar Earth Technologies, Inc.	W
Miramat	363	Mirafi, Incorporated	R

[**] **Change in status**
[*] **New item**

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Product Name	Number	Manufacturer	Status
Noishield	318	Industrial Acoustics Company	R
P300 Erosion Control Blanket	391	North American Green	A
Pec-Mat	482	Greenstreak, Incorporated	A
Permafused	158	Anchor Post Products, Incorporated	A
PS 100 Mulch Blanket	419	Proseed (U.S.A.), Incorporated	R
Pyramid	454	The Reinforced Earth Company	A
SC150 Erosion Control Blanket	470	North American Green	A
Sno-Strap	396	Signode Corporation	R
Soil Retention Blanket	53	American Excelsior Company	A
Sound Off	428	Crane/Cor Tec Company	W
Soundcore	455	Advanced Storage Technology	A
SS-40 Fence Pipe	259	Allied Tube and Conduit Corporation	A
Sta-Tuft	233	Environmental Products Corporation	R
SuperGro 758	416	Phillips Fibers Corporation	W
T-Wall Retaining Wall	439	Neel Company	A
Tensar Erosion Mat - NS3000	411	Tensar Corporation	A
Tensar Snowfence	370	Tensar Corporation	A
Terra-Green	32	Oil Dry Corporation of America	R
Terra Tack II	257	Grass Growers, Incorporated	A
Tri-Lock	393	American Excelsior Company	A
Triangular Silt Dike System	483	Triangular Silt Dike Company	A
Urox	108	Barrett Division-Allied Chemical Corp.	A
Verdyol XTRA Standard	468	Verdyol Alabama, Incorporated	A
Versa-Lok Retaining Wall System	438	Bend Industries/Ampress	A
Z Clip	478	International Fence Systems, LLC	W

SAFETY

Aluminum Guard Rail	31	ALCOA	R
Carsonite Modular Glare Screen	360	Carson International Corporation	A
Chain Link Fence Glare Screen	306	United States Steel Corporation	A
Cor-Ten Guard Rail	8	United States Steel Corporation	R
Dragnet Vehicle Arresting Barrier	424	Entwistie Manufacturing Company	A
Forward	253	Proven Products, Incorporated	A
Glare-Gaard	465	Automotive Safety Transport, Inc.	A
Glare Screen	30	ALCOA	R
Glare Screen	162	Wheeling Corrugating Company	R
Hi-Dri Cell Guardrail Blockout	234	Energy Absorption Systems, Inc.	R
Hollow Shell Median Barriers	331	Lone Star Polymer Concrete Company	W
IBC Mk-7 Barrier	361	International Barrier Corporation	R
Railguard	26	Eagle Signal Company	R
REACT 350	459	Roadway Safety Service, Incorporated	A
Ritza Glaretamer	291	Julius Koch USA, Incorporated	R
Sentre Guardrail Terminal	392	Energy Absorption Systems, Inc.	W
SP-3	99	Slip-Pruf Service Corporation	R
Spraygrip	180	Prismo Universal Corporation	W

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Product Name	Number	Manufacturer	Status
Tex-Tube	141	Tex-Tube Division - Detroit Steel Co.	W
Vehicle Attenuator Terminal	395	Syro Steel Company	W
Welded Beam Guardrail Post	327	Welded Beam Corporation	A
STABILIZATION			
Calcium Chloride Stabilization	5	Calcium Chloride Institute	R
Coherex	24	Witco Chemical Company	W
Dustmaster	9	Michigan Chemical Corporation	A
Lignin LS-50	423	Prince Manufacturing Company	A
Lignin Sulphonate Road Binder	135	W. F. Macklin and Associates	R
MC Granular Calcium Chloride	136	Michigan Chemical Corporation	R
Paczyme	152	Larutan Corporation	R
Peneprime	121	Empire Petroleum Company	R
Pennzsuppress D	458	Pennzoil Products Company	W
Perma-Soil	375	Ditch Witch, Incorporated	R
SA-1	90	Central Chemical Company	R
Sodium Chloride Stabilization	123	Morton Salt Company	R
Terbec C-7	113	Dow Chemical Company	R
STRUCTURES			
4727 Zinc-Hydrogel Anode	480	Minnesota Mining & Manufacturing	R
Anchor-it	389	Adhesives Technologies Corporation	A
Asbestos-Asphalt Deck Overlay	132	Johns-Manville Products Corporation	R
Asbestos-Asphalt Membrane	186	Johns-Manville Products Corporation	R
Auto-Gard	77	Neogard Corporation (Jones Blair Co.)	R
Bituthene (Heavy Duty)	226	W. R. Grace & Company	A
Butylfelt	238	Storey Brothers & Company, Ltd.	R
Carboline 1304-145	192	Carboline Company	R
Concrete Arch Buried Bridge	432	Lane Enterprises, Incorporated	W
Cybond	115	American Cyanamid Company	R
Delcrete Elastomeric Concrete	407	D. S. Brown Company	A
Dow Corning 902 RCS	434	Dow Corning Corporation	A
Dylex Latex 1186	285	Tex-Crete, Incorporated	A
Epi-Top 100	160	Celanese Resins	R[2]
EpoXeal 300	194	EpoXeal, Incorporated	R
Fabriform Pile Jackets	225	Construction Techniques, Incorporated	A
Flexcon 2000 Joint System	442	R. J. Watson, Incorporated	R
Flexolith	398	Dural International Corporation	A
Gacoflex N-3S	240	Gates Engineering Company, Inc.	R
Gacoflex UWM-28	241	Gates Engineering Company, Inc.	R
Galvashield	493	Vector Corrosion Technologies	F
Guardkote 140	116	Shell Oil Company	R

[2] Rejected for wearing surface. Approved for patching.

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Product Name	Number	Manufacturer	Status
Guardkote 250	117	Shell Oil Company	A
Hydro-Ban RVN Membrane	235	Hydro-Ban Corporation	R
Hyload	239	Ruberoid Building Products, Ltd.	R
Jeene	413	Jeene Technology Corporation	A
Melnar-8	265	W. R. Meadows, Incorporated	W
Multi-Ply System No. 1	101	Air Pressure Dampproofing Service, Inc. of Chicago	R
Nexus	138	United States Steel Corporation	R
Nordel Membrane (Reinforced)	215	E. I. duPont deNemours & Co., Inc.	R
Novadeck 750	170	Novagard Corporation	R
Pavetech Bridge Joint System	418	Pavetech BJS, Incorporated	R
Permabit 60	249	Briggs Amasco, Limited	R
Pliopave L-30	173	Goodyear Tire & Rubber Company	R
Polyguard No. 857-G Membrane	214	Polyguard Pipeline Products, Inc.	R
Preformed Paving Sheets	100	Johns-Manville Products Corporation	R
Protecto Wrap M-400 Membrane	213	Protecto Wrap Company	R
Resin Coated Glass Fabric	182	Burlington Glass Fabrics Company	A
Royston Bridge Membrane No. 10	212	Royston Laboratories, Incorporated	R
Rub-R-Road R-526	129	Firestone Tire and Rubber Company	R
Silicoflex	479	R. J. Watson, Incorporated	W
SM-100 (Dow Modifier A)	155	Dow Chemical Company	A
Steelflex SSCM Strip Seal	421	D. S. Brown Company	A
Superseal 4000-HT	242	Superior Products Company, Inc.	A
TechStar W-Seal	457	TechStar, Incorporated	R
Teflon Bridge Bearings	15	DuPont and Company, Incorporated	A
Thiokol 411-M	199	Thiokol Chemical Corporation	R
Tropilon Black	159	Tropical Paint Company	W
Tufchem Membrane	193	Pennwalt Corporation	R
Uniroyal Flexible Membrane 6125	172	Uniroyal, Incorporated	R
Wabo Two Part Silicone Sealant	489	Watson Bowman Acme Corporation	A

TRAFFIC

Adcolite	74	American Decal & Manufacturing Co.	A
Cycolac	188	Borg Warner Corporation	A
Duraform	187	Kaykor Division Continental Oil Co.	R
Duropipe Fiber Vaults	97	Sonoco Products Company	R
Epoflex	301	Southwest Research Institute	R
Epoxy Traffic Paint	65	Preform Parking Engineers, Inc.	R
E. W. 50 Loop Detector	27	Eagle Signal Company	W
Expand X	45	United States Gypsum Company	R
Eze-Erect Sign Post	283	Franklin Steel Company	A
FIMCO	18	General Railway Signal Company	W
FRP Road Signs	339	Owens-Corning Fiberglas Corporation	A
Highway Striping Epoxy	289	H. B. Fuller Company	A

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Product Name	Number	Manufacturer	Status
Compounds			
Hot Tape	425	Pave-Mark Corporation	A
LO-138	21	General Railway Signal Company	W
Lustra-Span	13	Monsanto Company	R
Manhole Protector Ring	500	Work Area Protection Corporation	F
Pavebrite	85	Neville Chemical Company	R
Plastix SD	272	Prismo Universal Corporation	A
Poz-Loc Post and Socket Assembly	384	Southwestern Pipe, Incorporated	A
Resincore	103	Rock Island Corporation	R
Safebrite Reflector	70	Anderson Safeway Guard Rail Corp.	A
Stamark	276	Minnesota Mining & Manufacturing Co.	A
Stamark Detour Grade	322	Minnesota Mining & Manufacturing Co.	A
Superflexon Valve Boxes	111	Plymouth Industrial Products	R
SVDM	20	General Railway Signal Company	W
SVDT-2	19	General Railway Signal Company	W
Temp Ramp	497	E Z Road, Incorporated	A
TIMCO	17	General Railway Signal Company	W
Traffic Signal Cable	35	General Electric Company	A
V-Loc Socket System	342	Foresight Industries, Incorporated	W
MISCELLANEOUS			
Anticorrosive Highway Deicer	402	Cargill, Incorporated	W
Carguard	61	Cargill, Incorporated	R
Dow Propylene Glycol	222	Dow Chemical Company	A
Isolv	208	Kaiser Agricultural Chemicals	W
UCAR	209	Union Carbide Corporation	A
UL-29 Liquid Ice Melter	161	United Laboratories, Incorporated	W

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D-1

COUNCIL RECOMMENDATION

NO.	PRODUCT NAME MANUFACTURER	DESCRIPTION	EVALUATION IN PROGRESS FIELD TEST	 LAB TEST	 OTHER	EVALUATION COMPLETED ACCEPT	 REJECT	REFERENCE TO STANDARD SPECIFICATIONS REMARKS
1	Vitrachem Logan Clay Products Logan, Ohio	Unglazed clay pipe				7/28/64		542, 550, 601, 1040.02 In specifications 10/15/64.
2	Ful-Flo Granco Steel Company St. Louis, Missouri	Semicircular steel underdrain pipe					X	Originally accepted 11/4/64, later rejected because of poor field performance.
3	Styrofoam Dow Chemical Company Midland, Michigan	Extruded expanded polystyrene subbase insulation				1/30/70		In specifications by provision 6/11/70.
4	Pave, Pave-Bond Carlisle Chemical Works Reading, Ohio	Asphalt additive (anti-stripping agent)				4/27/64		Maintenance only. Meets existing specification.
5	Calcium Chloride Calcium Chloride Institute Washington, DC	Stabilizing agent (shoulders)					2/9/65	Cost not justified by performance.
6	Corlix Kaiser Aluminum, Inc. Oakland, California	Helically corrugated aluminum culvert				4/27/64		542, 1006.03 In specifications 10/15/64.
7	Poroswall Walker Poroswall Pipe Co. Little Ferry, New Jersey	Porous concrete underdrain pipe					7/28/64	Cost not competitive. Re-evaluated under product proposal No. 394.
8	Cor-Ten Guard Rail United States Steel Corp. Pittsburgh, Pennsylvania	Weathering steel guardrail (alternate to galvanized)					10/9/67	Poor delineation properties.
9	Dustmaster Michigan Chemical Corp. St. Louis, Michigan	Calcium-magnesium chloride solution (stabilizing agent)				5/14/65		“M” specification M 32-65 In specifications 4/15/65.
10	Corlix (Perforated) Kaiser Aluminum, Inc. Oakland, California	Perforated helically corrugated aluminum underdrain pipe				4/27/64		601, 1006.03 In specifications 10/15/64.

COUNCIL RECOMMENDATION

NO.	PRODUCT NAME MANUFACTURER	DESCRIPTION	EVALUATION IN PROGRESS: FIELD TEST	EVALUATION IN PROGRESS: LAB TEST	EVALUATION IN PROGRESS: OTHER	EVALUATION COMPLETED: ACCEPT	EVALUATION COMPLETED: REJECT	REFERENCE TO STANDARD SPECIFICATIONS: REMARKS
11	Aluminum Pipe Arch Kaiser Aluminum, Inc. Oakland, California	Aluminum Pipe Arch Culvert				12/13/68		542, 1006 In specifications 1/2/71.
12	Colorcrete W. E. Dunn Manufacturing Holland, Michigan	Colored reflective waterproof stucco mortar					5/14/65	Insufficient durability.
13	Lustra-Span Monsanto Chemical Co. St. Louis, Missouri	Corrugated vinyl plastic for traffic control signs					4/27/64	No requirement.
14	Urethane Expansion Joint Barrett Division Allied Chemical Corp. New York, New York	Foamed polyurethane preformed expansion joint filler					4/27/64	No requirement.
15	Teflon Bridge Bearings E. I. du Pont de Nemours and Company, Inc. Wilmington, Delaware	Teflon sliding surfaces for bridge bearings				5/21/71		Trial installed 7/67, District 7. Lab tested. In special provision 1/1/72.
16	Tri-Kote 26 TK Products, Incorporated Minneapolis, Minnesota	Membrane curing compound				4/27/64		1022 Meets existing specification.
17	TIMCO General Railway Signal Company Rochester, New York	Three input memory counter operator for traffic studies						Referred to Bureau of Traffic 4/27/64.
18	FIMCO General Railway Signal Company Rochester, New York	Four input memory counter operator for traffic studies						Referred to Bureau of Traffic 4/27/64.
19	SVDT-2 General Railway Signal Company Rochester, New York	Ultra-sonic vehicle detector						Referred to Bureau of Traffic 4/27/64.

COUNCIL RECOMMENDATION

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20	SVDM General Railway Signal Company Rochester, New York	Sonic moving vehicle detector						Referred to Bureau of Traffic 4/27/64.
21	LO-38 General Railway Signal Company Rochester, New York	Four channel lane occupancy computer						Referred to Bureau of Traffic 4/27/64.
22	Reclamite Witco Chemical Company Hammond, Indiana	Asphalt rejuvenating agent (surface application)					2/28/66	Trial installed 8/65, District 6. Cost not justified by performance.
23	Witcogard Witco Chemical Company Hammond, Indiana also Daugard Daubert Chemical Co. Oak Brook, Illinois	Bituminous adhesive ceramic granule protective coating for guardrail				2/9/68		Trial installed on guardrail 10/64, District 6. Trial installed on bridge fascia beams 11/68, Region 1. Approved for use on guardrails.
24	Coherex Witco Chemical Company Hammond, Indiana	Petroleum resin dust binder			11/4/64			Withdrawn by vendor.
25	Road Logger Lane-Wells Company Houston, Texas	Continuously recording nuclear density and moisture logging unit					2/9/65	Requirement too minor to justify.
26	Rail Guard Eagle Signal Company Davenport, Iowa	Animated advance warning sign for grade crossings					4/27/64	Contrary to Division policy.
27	EW 50 Loop Vehicle Detector Eagle Signal Company Davenport, Iowa	Loop vehicle detector						Referred to Bureau of Traffic 4/27/64.

COUNCIL RECOMMENDATION

NO.	PRODUCT NAME MANUFACTURER	DESCRIPTION	EVALUATION IN PROGRESS FIELD TEST	 LAB TEST	 OTHER	EVALUATION COMPLETED ACCEPT	 REJECT	REFERENCE TO STANDARD SPECIFICATIONS REMARKS
28	MWS Emulsified Asphalt Hot Mix Asphalt Emulsions, Inc. Lawrenceville, Illinois	Emulsified asphalt hot plant mixes				7/23/69		405, 406, 408, 1009 Trial installed 10/64 District 8.
29	Dow Corning 777 Dow Corning Corporation Midland, Michigan	Durability admixture for concrete					5/14/65	Excessive retardation.
30	Glare Screen ALCOA Pittsburgh, Pennsylvania	Expanded aluminum mesh glare screen					5/14/65	No requirement. See product proposal no. 162.
31	Aluminum Guard Rail ALCOA Pittsburgh, Pennsylvania	Aluminum beam guard rail					2/28/66	Insufficient dynamic strength.
32	Terra-Green Oil Dri Corp. of America Chicago, Illinois	Calcined clay soil conditioner					8/5/77	Trial installed fall 1965, spring 1966, Region 1 and District 7.
33	Black Beauty H. B. Reed & Company Hammond, Indiana	Wet bottom boiler slag synthetic aggregate				5/14/65		1003, 1004 In specifications 9/3/65. See product proposal no. 55.
35	Traffic Signal Cable General Electric Company Bridgeport, Connecticut	Polyethylene-coated signal cable				7/28/64		Use by special provision only.
38	Asbestos Thin Overlay Johns-Manville Products Corporation Manville, New Jersey	Asphalt-asbestos fiber hot mix for thin overlays					8/30/68	No requirement.
39	Aluminum Culvert (Wide Sheet) Kaiser Aluminum, Inc. Oakland, California	Double width sheet for riveted aluminum pipe				7/28/64		542, 1006 Meets existing specifications.

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40	Klean-Kote Orangeburg Manufacturing Company Orangeburg, New York	Perforated bituminized fiber pipe					X	Originally accepted 7/28/64, later rejected because of poor field performance.
41	Concut Bump Cutter Concut, Incorporated El Monte, California	Concrete grinder for the maintenance of rough pavements						353, 420, 503 Referred to Bureau of Maintenance 5/14/65.
42	Sonocure DeSoto Chemical Coatings Des Plaines, Illinois	Membrane curing compound and surface sealer					5/14/65	Cost not justified by performance.
43	Far-Go Vinyl Concrete Patching Compound Dry Mix Concrete Co. Franklin Park, Illinois	Concrete patching compound					5/27/66	Lab tested. Cost not justified by performance.
44	R-1000 Repaver Cutler Engineering Elk Grove Village, Illinois	Heater-planer-paver				1/30/70		Trial installed on MFT project 7/66, Region 1. In special provisions 4/11/70.
45	Expand-X U. S. Gypsum Company Chicago, Illinois	Expanded aluminum temporary signs					2/9/65	Not competitive.
46	Aluminum Sectional Plate Kaiser Aluminum, Inc. Oakland, California	Corrugated aluminum plate drainage structures				7/23/69		541, 1006 Trial installed on MFT project 9/67, District 7.
47	Stanray Inlet Stanray Corporation Chicago, Illinois	Welded grate inlet				5/14/65		604, 1006 Special use only.
48	Ladder Manholes & Bases C. P. Engineering Chicago, Illinois	Precast ladder manholes and bases					8/6/65	Proprietary.

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49	Basic Lead Silico Chromate Eagle Pilcher Company Cincinnati, Ohio	Bridge and guard rail paint (linseed oil and alkyd resin)					X	Lab tested, trial installed 5/63, District 6. Originally accepted 7/23/69, in specifications 2/15/70. No longer allowed because of health risks.
50	Industrial Protective Coating Jessop Steel Company Washington, Pennsylvania	Bridge and guard rail paint (polyvinyl chloride)					5/4/70	Lab tested. Trial installed 10/68, District 6. Cost not justified by performance.
51	Portland Cement Paint Glidden Company Chicago, Illinois	Guard rail paint (tung oil)					4/11/69	Lab tested. Trial installed 10/68, District 6. Cost not justified by performance.
52	Plastiment Sika Chemical Company Passaic, New Jersey	Water reducing admixture			5/14/65			1021 Referred to Bureau of Materials.
53	Soil Retention Blanket American Excelsior Corp. Chicago, Illinois	Temporary mulch and erosion control material				7/7/67		251, 1081 Trials installed 9/64, Districts 2 and 3; 9/65, District 6. In specifications 8/1/68.
54	Eeesy Grow S & D Products, Inc. Prairie du Chien, Wisconsin	Controlled release fertilizer packets					1/30/70	Lab tested. Cost not justified by performance.
55	Boiler Slag Combustion By-Products Company Chicago, Illinois	Wet bottom boiler slag synthetic aggregate				5/14/65		1003, 1004 In specifications 9/3/65. See product proposal no. 33.
56	Synopal Union Contracting & Engineering Company Chicago, Illinois	Light reflecting, skid-resistant synthetic aggregate					4/6/73	Trials installed 8/65, Districts 3 and 6; 11/69, Region 1. Limited availability. Cost not justified by performance.
57	Speed Crete Concrete Maintenance Products, Incorporated Crystal Lake, Illinois	Fast-setting concrete patching compound					5/14/65	Lab tested. Insufficient durability. See product proposal no. 126.

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58	Stainless Hel-Cor Armco Steel Corporation Middletown, Ohio	Stainless steel helically corrugated culvert pipe.					5/14/65	Not in production.
59	Ramflex U. S. Rubber Reclaiming Company, Incorporated Buffalo, New York	Powdered rubber additive for asphalt hot mixes					3/31/78	Trials installed 8/66, 8/67, 10/68, and 10/71, Region 1.
60	Rhoplex MC-4530 Rohm and Haas Company Philadelphia, Pennsylvania	Strength and durability admixture for concrete			12/12/66			Lab tested. Withdrawn by vendor.
61	Carguard Cargill, Incorporated Minneapolis, Minnesota	Rust inhibiting additive for deicing					2/9/68	Lab tested. Cost not justified by performance.
62	Load Transfer Device Acme Highway Products Buffalo, New York	Cast iron load transfer device for pavement joints					8/6/65	No requirements.
63	Acroflex Gordon Bartels Company Rockford, Illinois	Strength and durability admixture for concrete			12/12/66			Lab tested. Withdrawn by vendor.
64	Bitumuls Chevron Asphalt Company St. Louis, Missouri	Cationic emulsified asphalts				4/5/74		1009
65	Epoxy Traffic Paint Preform Parking Engineers Chicago, Illinois	Traffic striping paint					12/13/68	Field trial 5/64, Region 1. Cost not justified by performance.
66	Bondex Concrete Patch Reardon Company Olivette, Missouri	Concrete patching compound					5/27/66	Lab tested. Cost not justified by performance.

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67	PE-50 Steelcote Manufacturing Company St. Louis, Missouri	Penetrating epoxy concrete surface sealer for bridge decks					7/23/69	Lab tested. Trial installed 9/68, District 6. Cost not justified by performance. Initially approved as bridge seat sealer on Bridge Special Provision BSP-1, 7/1/71. Not included on latest list of approved bridge seat sealers.
68	Cline Rolling Straightedge Frank Cline Tractor Co. Arcadia, Florida	Pavement surface trueness tester					11/19/65	No requirement.
69	Homex Homasote Company Trenton, New Jersey	Preformed expansion joint filler					5/28/68	Lab tested. Does not meet AASHTO or ASTM specifications.
70	Safebrite Reflector Anderson Safeway Guard Rail Corporation Evansville, Indiana	Guard rail mounted reflector				11/19/65		
71	Transite Underdrain Pipe Johns-Manville Products Corporation New York, New York	Perforated asbestos cement underdrain pipe					X	Originally accepted 11/19/65 and in specifications 5/1/66. No longer permitted.
72	Duropipe Sectional Slope Drain Sonoco Products Co. Hartsville, South Carolina	Bituminized fiber ditch liner					X	Originally accepted 11/19/65. No longer permitted.
73	Presstite No. 357.5 Interchemical Corporation St. Louis, Missouri	Hot-poured rubber asphalt joint sealing compound				7/14/72		1050.02 Trials installed 10/65, Region 1 and District 6.
74	Adcolite American Decal & Mfg. Co. Chicago, Illinois	Reflective sign sheeting				8/28/73		Temporary signs only.
75	Pavajuster Neenah Foundry Company Neenah, Wisconsin	Manhole adjusting ring				2/28/66		603.08

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76	Adjus-to-Grade National Utility Products Company Cleveland, Ohio	Manhole adjusting ring				2/28/66		603.08
77	Auto-Gard Neogard Corporation (Jones Blair Company) Dallas, Texas	Fiber glass reinforced elastomeric membrane					2/28/66	Cost not justified by performance.
78	Gering Sewer/Drain Pipe Gering Plastics Company Kenilworth, New Jersey	Perforated plastic underdrain pipe					7/7/67	Lab tested. Insufficient strength.
79	Pro-Seal 968 Coast Pro-Seal & Mfg. Co. Los Angeles, California	Polysulfide joint sealing compound					7/14/62	Lab tested. No requirement.
80	Tri-Kote 18 T. K. Products, Inc. Minneapolis, Minnesota	Chlorinated rubber epoxy membrane curing compound and concrete sealer					5/27/66	Not competitive.
81	Koppers Concrete Sealer Koppers Company, Inc. Pittsburgh, Pennsylvania	Tar based concrete sealer					5/27/66	Not competitive.
82	Confilm Master Builders, Inc. Cleveland, Ohio	Evaporation retardant for fresh concrete					2/9/68	Lab tested.
83	TM-700 Tree Mover Vermeer Manufacturing Company Pella, Iowa	Mechanical tree transplanter			5/27/66			Referred to Bureau of Maintenance.
84	Concrete Planer Christensen Diamond Products Company Salt Lake City, Utah	Planer for smoothing and texturing pavement surfaces					10/9/67	Cost not justified by performance.

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85	Pavebrite Neville Chemical Company Pittsburgh, Pennsylvania	Pigment and synthetic resin binder system for colored pavements					8/30/68	Cost not justified by performance.
86	CDC Plastic Concrete Concrete Development Corporation San Antonio, Texas	Polyester resin concrete for bridge deck patches and overlays			10/9/67			Withdrawn by vendor.
87	ChemComp Medusa Portland Cement Company Cleveland, Ohio	Shrinkage compensating cement for pavements and bridges			X			Withdrawn. Refer to Cooperative Research Study "Shrinkage Compensating Concrete in Bridge Decks".
88	Aluminum Storm Sewer Kaiser Aluminum, Inc. Oakland, California	Aluminum pipe products for use in storm sewers				X		550, 1006 Originally rejected 7/23/69, later accepted based on new information.
89	Steel Furnace Slag Illinois Slag & Ballast Co. Chicago, Illinois	Open hearth furnace slag for base courses and bituminous mixes				4/3/81		1003, 1004 Approved for Class I bituminous mixes only.
90	SA-1 Central Chemical Co. Fresno, California	Soil stabilization chemical for use in base stabilization and reconstruction of bituminous pavements					12/13/68	Trial installed on MFT project, 8/66, District 6. Cost not justified by performance.
91	Rub-R-Road R-504 Firestone Tire & Rubber Company Akron, Ohio	Synthetic rubber latex additive for asphalt hot mixes				4/6/73		Trial installed 5/67, District 6; 9/69, Region 1. Approved for thin sand mix overlays.

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92	Sealtight WP-45 W. R. Meadows, Inc. Elgin, Illinois	Membrane curing compound for use on concrete to be treated with linseed oil				9/11/70		1022 Lab tested.
93	Welded Culvert Pipe Young Metal Products, Inc. Granite City, Illinois	Galvanized corrugated steel pipe with resistance welded seams for culverts				12/12/66		542, 600, 1006.01 In specifications 2/1/67.
94	No. 2341-Z Para Plastic (Super) Dewey & Almy Division W. R. Grace Company Chicago, Illinois	Hot-poured rubber asphalt joint sealing compound				7/14/72		1050.02 Trial installed 11/66, Region 1.
95	Lion Colay Asphalt Monsanto Company El Dorado, Arkansas	Non-solvent asphalt for stockpile maintenance mixes					7/7/67	Lab tested.
96	Fly Ash Chicago Fly Ash Company Chicago, Illinois	Mineral filler				X		1010.04 Originally rejected 12/12/66, later accepted for mineral filler.
97	Duropipe Fiber Vaults Sonoco Products Co. Hartsville, South Carolina	Bituminized fiber vaults and pull boxes					X	Originally accepted 12/12/66 and used by special provision. Use discontinued due to lack of cost benefit versus concrete.
98	N. U. Boiled Linseed Oil Emulsion Agricultural Research Service - U.S.D.A. Peoria, Illinois	Combination curing compound and sealer					12/12/66	Insufficient water retention. Trial installed 11/66, District 5.
99	SP-3 Slip-Pruf Service Corp. Baton Rouge, Louisiana	Spray on skid-proofing material					8/30/68	Cost not justified by performance.

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100	Preformed Paving Sheets Johns-Manville Products Corporation Manville, New Jersey	Preformed asphalt-asbestos sheets for waterproofing bridge decks					X	Trial installed 6/68, Region 1. Originally accepted 5/4/70, later rejected because of health concerns.
101	Multi-Ply System No. 1 Air Pressure Dampproofing Service, Inc. of Chicago Chicago, Illinois	Sprayed on glass fiber emulsified asphalt system for bridge decks					8/30/68	Trial installed 6/68, Region 1. Excessively long cure time.
102	All-Weather Crete HI-45 Silbrico Corporation Hodgkins, Illinois	Hot mix asphalt-perlite insulating mix				4/26/76		Trial installed 10/70, Region 1 (subbase).
103	Resincore Rock Island Corporation Marinette, Wisconsin	Wood chip-phenolic resin particle board for traffic control sign substrates					12/13/68	Lab tested.
104	Quick-Set Camp Company, Inc. Chicago, Illinois	Fast setting concrete patching compound					10/9/67	Lab tested. Insufficient durability.
105	Hydro-Plug Camp Company, Inc. Chicago, Illinois	Flash setting non-shrink grout for setting anchor bolts			X			Lab tested. Originally accepted 2/9/68. Not on the department's latest list of non-shrink grouts.
106	Far-Go Swift-Set Dry Mix Concrete Co. Chicago, Illinois	Fast setting concrete patching material					2/9/68	Lab tested. Insufficient durability.
107	Farbertite Briggs Bituminous Composition Company Philadelphia, Pennsylvania	Coal tar protective coating for use with aluminum surface coats					1/30/70	No requirement.
108	Urox Barrett Division Allied Chemical Corp. Melrose Park, Illinois	Chemical soil sterilant for use with asphalt or tar				12/13/68		Trial installed 9/67, Region 1.

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109	Sika Set Sika Chemical Corporation Passaic, New Jersey	Accelerating admixture					5/4/70	Lab tested. Cost not justified by performance.
110	Mulseal Emulsified Asphalts, Inc. Chicago, Illinois	Emulsified asphalt for waterproofing structures below grade				1/29/71		1060 Emulsified Asphalts, Inc. was purchased by Koch Materials.
111	Superflexon Valve Boxes Plymouth Industrial Products Sheboygan, Wisconsin	Asbestos reinforced plastic valve, curb service, and meter boxes					2/25/72	Trial installed 8/71, District 6. Insufficient size and lid strength.
112	Rubber Calk 3105 Products Research and Chemical Corporation Burbank, California	Two-component polyurethane sealant for bridge and pavement joints					12/19/75	Trials installed 7/66, 11/73, District 6.
113	Terbec C-7 Dow Chemical Company Midland, Michigan	Soil stabilization chemical for use in base construction utilizing in-place materials					7/7/67	Product development not completed.
114	Gilsabind Gilsabind Corporation Santa Fe Springs, California	Cut-back gilsonite asphalt for sealing asphalt pavements					12/13/68	Trials installed 7/67, 9/67, Region 1. Cost not justified by performance.
115	Cybond American Cyanamid Co. Wallingford, Connecticut	Polyester resin for wearing surfaces and interlayer membranes					8/30/68	Trial installed 10/67, Region 1. Requires excessively strict control of application conditions and procedures.
116	Guardkote 140 Shell Oil Company New York, New York	Coal tar extended epoxy resin for wearing surfaces and interlayer membranes					7/7/67	Unsatisfactory in earlier experimental performance installations.

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117	Guardkote 250 Shell Oil Company New York, New York	Oil extended epoxy resin for wearing surfaces and mortar mixes for patching				9/30/71		Evaluate for mortar mix only. Reject for wearing surfaces. Trial installed 9/70, Region 1. Approved for shallow patches.
118	Placewell R Union Carbide Corporation New York, New York	Water reducing admixture			10/9/67			1021 Referred to the Bureau of Materials.
119	Daraweld C Dewey and Almy Division W. R. Grace and Company Chicago, Illinois	Bonding agent for concrete					4/11/69	Lab tested. Cost not justified by performance.
120	Colma Membrane Compound Sika Chemical Corporation Passaic, New Jersey	Membrane curing compound and surface sealer					10/9/67	No requirement.
121	Peneprime Empire Petroleum Co. Sheboygan, Wisconsin	Deep penetrating cut-back asphalt for soil stabilization and sealing asphalt pavements					12/13/68	Trial installed (stabilization) 8/67, District 7. Cost not justified by performance.
122	Slurry Seal International Slurry Seal Association Omaha, Nebraska	Aggregate emulsified asphalt surface treatment					10/9/67	Previously field tested. Cost not justified by performance. See product proposal no. 167.
123	Sodium Chloride Stabilization Morton Salt Company Hamilton, Ohio	Stabilizing agent for shoulders and bases on primary roads					10/9/67	Rejected for primary roads. Approved for secondary roads.
124	Osmose K-33 Osmose Wood Preserving Company of America, Inc. Buffalo, New York	Water-borne wood preservative				10/9/67		1007 Sign posts only. “M” specification M 16-95.

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125	Transite Storm Sewer Johns-Manville Products Corporation New York, New York	Asbestos cement pipe storm sewers					X	Originally approved 10/9/67 and incorporated in specifications 3/15/68. Later rejected because of health concerns.
126	Speed Crete Tamms Industries, Inc. Itasca, Illinois	Fast setting concrete patching compound				2/9/68		Lab tested. First submitted under product proposal no. 57.
127	Pozzolith 100-XR Master Builders, Inc. Cleveland, Ohio	Water reducing, retarding admixture			2/9/68			Referred to Bureau of Materials.
128	Rhoplex E-330 Rohm and Haas Company Philadelphia, Pennsylvania	Strength and durability admixture for concrete					1/29/71	Cost not justified by performance.
129	Rub-R-Road R-526 Firestone Tire and Rubber Company Akron, Ohio	Liquid applied rubber interlayer membrane					5/16/75	Lab tested. Trial installed 6/72, Region 1.
130	Colfix Jet Seal Chevron Asphalt Company Cincinnati, Ohio	Coal tar emulsion					2/9/68	Does not meet Illinois specifications.
131	XR-6-5046 Dow Corning Corporation Midland, Michigan	Silicone modified membrane curing compound					5/28/68	Excessive retardation.
132	Asbestos Bridge Deck Overlay Johns-Manville Products Corporation Manville, New Jersey	Asphalt-rich asbestos asphalt hot mix for bridge deck overlays					12/19/72	Trial installed 6/72, Region 1.
133	Pressure Relief Joint W. R. Meadows, Inc. Elgin, Illinois	Poured in place urethane foam expansion joint filler					5/28/68	Limited to warm weather use.

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134	Bridge Kote, No. 50 Templar, Incorporated South River, New Jersey	Latex mortar architectural coating for concrete					5/28/68	No requirement.
135	Lignin Sulphonate Road Binder W. F. Macklin & Assoc. New Brighton, Minnesota	Spent sulfite liquor stabilizing agent					5/28/68	Cost not justified by performance.
136	MC Granular Calcium Chloride Michigan Chemical Corp. St. Louis, Michigan	90-93 percent granular calcium chloride					8/30/68	Competitiveness not demonstrated.
137	Plastic-Coated Dowel Bars Republic Steel Corporation Cleveland, Ohio	Polyethylene plastic-coated carbon steel load transfer dowel bars					X	Originally accepted 8/30/68. In specifications 3/15/69. Use later discontinued in favor of epoxy-coated dowel bars.
138	Nexus United States Steel Corporation Pittsburgh, Pennsylvania	Coal tar modified synthetic resin thermoplastic interlayer membrane					10/23/69	Trial installed 11/68, District 6.
139	Express Repair Springbok Corporation Crystal Lake, Illinois	Fast setting concrete patching compound			X			Lab tested. Originally accepted 4/11/69. Not on the department's latest list of approved rapid hardening mortars.
140	Gripstop Highway Safety Materials, Inc. Brownsville, Kentucky	Modified Kentucky rock asphalt for skid resistant hot mix overlays			4/26/76			Trials installed 10/68, 8/70, Region 1. Withdrawn by vendor.
141	Tex-Tube Tex-Tube Division Detroit Steel Company Houston, Texas	Elliptical steel barrier rail for medians and bridges			12/13/68			509, 630, 1006 Referred to Bureau of Design

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142	Ethafoam Dow Chemical Company Midland, Michigan	Polyethylene foam preformed expansion joint filler				12/13/68		1051.08 Temporarily rejected starting 8/9/85, later reinstated.
143	Pigmented Pitt-LOC PPG Industries Minneapolis, Minnesota	Pigmented linseed oil-petroleum spirit protective coat					10/23/69	Trial installed 10/68, Region 1. Cost not justified by performance.
144	Linseed Oil Anti-Spalling Emulsion Sherwin-Williams Co. Cleveland, Ohio	Linseed oil emulsion protective coating for portland cement concrete					5/21/71	Lab tested. Cost not justified by performance.
145	Tapisable L&B/AJB, Incorporated Springfield, Illinois	Asphalt hot mix for thin overlays				7/14/72		Trial installed on MFT project 11/70, Region 1.
146	Lion Nokorode Al-Kote Monsanto Company El Dorado, Arkansas	Aluminum pigmented asphalt base protective coating				1/29/71		Trial installed 8/68, Region 1. Special Provision written based on Federal Specification TT-C-001079a.
147	Lion Nokorode Seal Kote Monsanto Company El Dorado, Arkansas	Black asphalt base protective coating				1/29/71		Trial installed 8/68, Region 1.
148	Tri-Dar 33 Darling and Company Chicago, Illinois	Linseed oil based membrane curing compound					1/30/70	Insufficient moisture retention.
149	Flo-Mix U. S. Rubber Reclaiming Company Buffalo, New York	Rubber additive for hot pour asphalt fillers			5/4/70			Trial installed 4/69, Region 1. Referred to Bureau of Maintenance.
150	Traffix Pace Products, Inc. Kansas City, Missouri	Asphalt based pavement patching compound			9/11/70			Trial installed 12/69, Region 1. Referred to Bureau of Maintenance.

COUNCIL RECOMMENDATION

NO.	PRODUCT NAME MANUFACTURER	DESCRIPTION	EVALUATION IN PROGRESS FIELD TEST	 LAB TEST	 OTHER	EVALUATION COMPLETED ACCEPT	 REJECT	REFERENCE TO STANDARD SPECIFICATIONS REMARKS
151	Fast-Set Pre-Krete Pocono Fabricators, Inc. East Stroudsburg, PA	Fast setting concrete patching compound			X			Lab tested. Originally accepted 5/21/71. Not on the department's latest list of approved rapid hardening mortars.
152	Paczyme Larutan Corporation Anaheim, California	Enzymatic soil compaction aid					7/23/69	Trial installed 6/69, District 5.
153	Chemgrass Monsanto Chemical Co. St. Louis, Missouri	Polyethylene synthetic turf					3/11/77	Trials installed 12/71, Region 1; 6/76, District 6.
154	Chemprime Al-Con Chemical Company New Orleans, Louisiana	Rust inhibiting cleaner and primer for steel					5/21/71	Toxic. Requires special handling.
155	SM-100 (Dow Modifier A) Dow Chemical Company Midland, Michigan	Latex emulsion additive for concrete patches and overlays				3/31/78		Trials installed 10/69, 11/69, District 2.
156	Barrier National Chemical Corp. West Newton, MA	Penetrating polyester concrete surface sealer					7/23/69	Cost not justified by performance.
157	Urecal Urecal Corporation Elk Grove Village, Illinois	Urethane based protective coating for metal and concrete					5/21/71	Trial installed 8/69, District 5. Excessive drying time.
158	Permafused Anchor Post Products, Inc. Baltimore, Maryland	Bonded vinyl coated chain link fence fabric				7/23/69		664, 1006.27 In specifications 4/1/70.
159	Tropilon Black Tropical Paint Company Cleveland, Ohio	Elastomeric coating for bridge seats and pier caps			12/7/72			Withdrawn by vendor.
160	Epi-Top 100 Celanese Resins Louisville, Kentucky	Epoxy binder for epoxy mortar bridge overlays					10/23/69	Trial installed 7/68, Region 1. Excessive permeability. Approved for patching.

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161	UL-29 Liquid Ice Melter United Laboratories, Inc. Bensenville, Illinois	Additive to increase the efficiency of deicing salt			9/30/71			Field tested District 4. Referred to Bureau of Local Roads and Streets.
162	Glare Screen Wheeling Corrugating Co. Wheeling, West Virginia	Modular glare screen system using enameled expanded galvanized mesh					X	Trials installed 8-70, District 4; 2/71, District 2; 7/71, District 6. Originally accepted 9/30/71, no longer in specifications due to poor durability.
163	Poly Vinyl Steel Wheeling Service and Supply, Incorporated Arlington Heights, Illinois	Baked on polyvinyl chloride coating for guardrail and steel posts					1/29/71	Trial installed 10/69, Region 1. Cost not justified by performance.
164	Unelko Water Repellent Unelko Corporation Chicago, Illinois	Single component hydrophobic penetrating concrete surface sealer					5/21/71	Lab tested. Cost not justified by performance.
165	Alumanation No. 301 Republic Powdered Metals Medina, Ohio	Aluminum pigmented asphalt base protective coating				1/29/71		Special provision written based on Federal Specification TT-C-001079a.
166	Aquatain Larutan Corporation Anaheim, California	Pectin based soil stabilizer for erosion control					10/23/69	Trial installed 5/69, District 7.
167	Slurry Seal International Slurry Seal Association Omaha, Nebraska	Aggregate-emulsified asphalt surface treatment				4/6/73		Resubmitted under product proposal no. 122. Trial installed 11/70, Region 1. Approved for local roads up to 750 ADT.
168	TCA Bridge-Cote Textured Coatings of America, Incorporated Los Angeles, California	Synthetic elastomer polyester resin base architectural coating for concrete				5/16/75		Trial installed 10/73, Region 1.
169	Pioneer 507 Daubert Chemical Co. Oak Brook, Illinois	Aluminum pigmented asphalt base protective coating				1/29/71		Special provision written based on Federal Specification TT-C-001079a.

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170	Novadeck 750 Novagard Corporation Trenton, New Jersey	Two component polysulfide coal tar interlayer membrane					7/14/72	Lab tested.
171	Carbo Zinc 11 Carboline Company St. Louis, Missouri	Inorganic zinc coating for steel				X		1008.22 Trials installed 4/72, District 5; 4/73, District 8; 9/74, District 1. Originally rejected 12/1/78, later accepted by Bureau of Bridges and Structures.
172	Uniroyal Flexible Membrane 6125 Uniroyal, Incorporated Mishawauka, Indiana	Hot poured rubberized asphalt interlayer membrane					8/28/73	Trial installed 11/71, District 6. Unstable at paving temperature.
173	Pliopave L-30 Goodyear Tire and Rubber Company Akron, Ohio	Liquid applied rubber interlayer membrane					5/16/75	Trial installed 6/72, District 6.
174	Pliopave L-170 Goodyear Tire and Rubber Company Akron, Ohio	Synthetic rubber latex additive for asphalt hot mixes				4/6/73		Trial installed 10/71, Region 1. Approved for thin sand mix overlays.
175	Materialite Materials Service Corp. (formerly Marblehead Lime Company) Chicago, Illinois	Expanded shale lightweight synthetic aggregate for skid resistant overlays			X			Trials installed 7/75, District 1; 7/75 District 8. Accepted 12/19/75. Product discontinued by manufacturer in 1977.
176	Tufchem Pennwalt Corporation Philadelphia, Pennsylvania	Thermosetting resin additive for concrete patches and overlays					9/30/71	Cost not justified by performance.
177	Linseed Oil Curing Compound National Flaxseed Processors Association Chicago, Illinois	Water soluble linseed oil based membrane curing compound					9/30/71	Trial installed 10/69, District 6. Lab tested. Insufficient moisture retention.

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178	Sylvatal 40 Glidden-Durkee Jacksonville, Florida	Distilled tall oil mineral spirit protective coating for concrete				1/29/71		Trial installed 10/70, District 5.
179	Lakelite United States Steel Corp. Chicago, Illinois	Expanded clay lightweight aggregate for skid resistant overlays			7/26/74			Withdrawn by vendor.
180	Spraygrip Prismo Universal Corp. Huntington, Pennsylvania	Epoxy-calcined bauxite skid resistant surface treatment			X			Withdrawn by vendor. Refer to state research study "Skid Resistance of Pavement Surfaces" 7/14/72.
181	Cold Mix BAM Walsh and Kelly, Inc. Griffith, Indiana	Asphalt-emulsion cold mix for bases and shoulders			X			Withdrawn by vendor. Refer to cooperative research study "Structural Evaluation of Asphalt-Aggregate Cold Mix Bases" 4/6/73.
182	Resin Coated Glass Fabric Burlington Glass Fabrics Company New York, New York	Resin coated fiber glass fabric				9/11/70		In special provisions 7/1/71.
183	Poly-Tite Sandell Manufacturing Co. Cambridge, Massachusetts	Polyurethane foam preformed joint sealer					7/31/76	
184	Truss Pipe Armco Corporation Springfield, Illinois	ABS composite pipe for storm sewers					X	Originally accepted 5/21/71. Eliminated from standard specifications by 2/1/96 supplemental specification.
185	Flextran Johns-Manville Products Corporation Manville, New Jersey	Fiber glass reinforced polyester resin pipe for storm sewers					12/12/77	Trial installed 11/71, District 8. Excessive deflection.

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186	Asbestos-Asphalt Membrane Johns-Manville Products Corporation Manville, New Jersey	Hot mix membrane course for waterproofing bridge decks					X	Originally accepted 7/26/74 and added to specifications. Later rejected due to blistering.
187	Duraform Kaykor Division, Continental Oil Company Fairless Hills, PA	Asbestos reinforced polyvinyl chloride sign substrates					9/30/71	Insufficient impact resistance.
188	Cycolac Safety Guide Products Department Borg Warner Corporation Scottsburg, Indiana	ABS plastic sign substrates				4/6/73		Trials installed 6/71, Districts 1, 3, 5, and 6. Approved subject to size and thickness limits established by the Bureau of Traffic.
189	Laykold Heavy Duty Resurfacer Chevron Asphalt Company Cincinnati, Ohio	Emulsified asphalt cold mix for very thin overlays				3/11/77		Trials installed 10/70 and 9/73, District 6 on steel grid bridge decks.
190	Petroset AT Phillips Petroleum Co. Bartlesville, Oklahoma	Synthetic rubber emulsion for rubberizing asphalt pavements in-place					5/16/75	Trial installed 10/71, District 6 (BAM shoulders). Cost not justified by performance.
191	PetroMat Phillips Petroleum Co. Bartlesville, Oklahoma	Nonwoven polypropylene fabric for asphalt membranes and overlays				7/25/80		Lab tested. Accepted for reflective crack control.
192	Carboline 1304-145 Carboline Company St. Louis, Missouri	Coal tar polyurethane interlayer membrane					7/14/72	Lab tested. Trial installed 5/72, District 6.
193	Tufchem Membrane Pennwalt Corporation Philadelphia, Pennsylvania	Asphalt urethane interlayer membrane					1/29/71	Not competitive.

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194	EpoXeal 300 EpoXeal, Incorporated Gulfport, Mississippi	Asphalt extended epoxy interlayer membrane					8/28/73	Lab tested. Trial installed 9/71, District 6.
195	Homex 300 Homasote Company Trenton, New Jersey	Wood fiber preformed expansion joint				5/21/71		1051.04, ASTM D 1751, AASHTO M 213 with bituminous content requirement waived. In specifications 9/15/71.
196	Crown-Rite Crown-Trygg Corporation Joliet, Illinois	Coal tar stockpile patching mix				5/21/71		In specifications 9/1/71.
197	Garylite United States Steel Corporation Gary, Indiana	Expanded blast furnace slag lightweight aggregate for skid resistant overlays			12/4/81			1003, 1004 Trial installed 10/71, Region 1. Withdrawn by vendor. No longer available.
198	Haydite Westen Brick Company Danville, Illinois	Expanded shale lightweight aggregate for skid resistant overlays					12/4/81	Not cost competitive.
199	Thiokol 411-M Thiokol Chemical Corp. Trenton, New Jersey	Coal tar polysulfide interlayer membrane					7/14/72	Lab tested.
200	Creto Creto International Glen Ellyn, Illinois	Sodium silicate concrete surface sealer					12/7/72	Durability not demonstrated.
201	Cretex PVC Pipe Cretex Companies, Inc. Minneapolis, Minnesota	Polyvinyl chloride pipe for underdrains and storm sewers					9/30/71	
202	Duracal United States Gypsum Co. St. Louis, Missouri	Gypsum cement for fast setting concrete patching mixes				3/31/78		Trial installed 6/72, District 3. Lab tested.

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203	Mari-Crete Atlas Minerals and Chemicals Div., ESB, Inc. Mertztown, Pennsylvania	Fast setting concrete patching compound					9/30/71	Working time too short for general highway use.
204	Hydron 100 National Patent Development Corporation New York, New York	Acrylic polymer concrete surface sealer					2/25/72	Also known as FX-15 Hydron Concrete Polymer. Lab tested. Cost not justified by performance.
205	Anti-Hydro Anti-Hydro Waterproofing Company Newark, New Jersey	Waterproofing, curing, and accelerating admixture					8/28/73	Trial installed 6/71, District 6.
206	P-7 Paint Hammond Lead Products, Incorporated Hammond, Indiana	Tribasic lead phosphosilicate paints for structures and guardrail					12/19/75	Trial installed 5/74, District 5.
207	Dimetcote E-Z Ameron Corrosion Control Division Brea, California	Single package zinc filled inorganic coating for steel					7/31/76	Trial installed 9/74, District 1.
208	Isolv Kaiser Agricultural Chemicals (Division of Kaiser Aluminum and Chemical Corporation) Savannah, Georgia	Urea-formamide based liquid deicer			9/26/75			Field tested Districts 2, 3, and 7. Withdrawn by vendor.
209	UCAR Union Carbide Corporation Chicago, Illinois	Ethylene glycol based liquid deicer				9/26/75		Field tested Districts 2, 3, and 7.
210	Pozzolith 100-HE Master Builders, Inc. Cleveland, Ohio	Water reducing and accelerating admixture				12/7/72		1021 Lab tested. Replaced by Pozzolith 122-HE.

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211	Perma-Bind Larutan Corporation Anaheim, California	Cutback gilsonite asphalt for sealing asphalt pavements					5/16/75	Trial installed 10/71, District 6 (BAM shoulders). Cost not justified by performance.
212	Royston Bridge Membrane No. 10 Royston Laboratories, Inc. Pittsburgh, Pennsylvania	Prefabricated fiber glass reinforced interlayer membrane					10/75	Originally approved 5/16/75 and added to specifications. Later rejected because of blistering.
213	Protecto Wrap M-400 Membrane Protecto Wrap Company Denver, Colorado	Prefabricated interlayer membrane of resin modified coal tar reinforced with nonwoven polypropylene fabric					10/75	Originally approved 5/16/75 and added to specifications. Later rejected because of blistering.
214	Polyguard No. 875-G Membrane Polyguard Pipeline Products, Inc. Tulsa, Oklahoma	Prefabricated interlayer membrane of vinyl resin modified coal tar reinforced with woven fiber glass fabric					10/75	Originally approved 5/16/75 and added to specifications. Later rejected because of blistering.
215	Nordel Membrane (Reinforced) E. I. du Pont de Nemours and Company, Inc. Wilmington, Delaware	Prefabricated interlayer membrane of ethylene propylene rubber reinforced with nonwoven polypropylene fabric					12/19/75	Trials installed 8/75, District 1; 10/75, District 4.
216	Ceramascape Minnesota Mining and Manufacturing Company St. Paul, Minnesota	Polyurethane binder ceramic chip textured landscape surfacing material			7/14/72			Referred to Bureau of Maintenance.

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217	Trinidad Asphalt Great Lakes Asphalt, Inc. Zionsville, Indiana	Trinidad lake asphalt-petroleum asphalt blend asphalt cement			7/14/72			Referred to Bureau of Design.
218	Inorganic Zinc Primer No. 1302 Jordan Paint Manufacturing Co., Inc. Forest Park, Illinois	Zinc filled inorganic coating for steel			12/6/74			Withdrawn by vendor.
219	Weathercote T Medallion Corporation Chicago, Illinois	Vinyl epoxy coating for guardrail, posts, and poles				12/6/74		Trial installed 7/73, District 6. Approved for use by Bureau of Traffic only.
220	Scotchkote Resin No. 117 Minnesota Mining and Manufacturing Company St. Paul, Minnesota	Epoxy coating for sign posts and delineator posts					12/19/75	
221	Bituminous Pavement Rejuvenator Koppers Company, Inc. Pittsburgh, Pennsylvania	Tar based penetrating reconditioner for bituminous pavements					12/12/77	Trial installed 11/74, District 6.
222	Dow Propylene Glycol Dow Chemical Company Midland, Michigan	Propylene glycol-based liquid deicer				9/26/75		Field tested in Districts 3 and 6.
223	PRF-140 (Mirafi 140) Celanese Fibers Marketing Company Charlotte, North Carolina	Non-woven nylon and propylene filter fabric				5/16/75		1080.01, 1080.05 Trial installed 8/73, District 8.
224	Fabriform Erosion Control Mats Construction Techniques, Incorporated Cleveland, Ohio	Porous nylon fabric envelope forms for concrete erosion control works				4/6/73		285, 1080.04

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225	Fabriform Pile Jackets Construction Techniques, Incorporated Cleveland, Ohio	Porous nylon fabric forms for pile encasements				4/6/73		Special use only by Bureau of Maintenance and Bureau of Local Roads and Streets.
226	Heavy Duty Bituthene W. R. Grace Company Cambridge, Massachusetts	Prefabricated interlayer membrane of rubberized asphalt reinforced with woven polypropylene fabric				7/25/80		443, 1062 Trials installed 9/73 and 10/74, District 4; 6/78, District 5. Reject for bridge decks 3/28/80. Accept for reflective crack control.
227	Rubber Railroad Crossings Goodyear Tire and Rubber Company St. Marys, Ohio	Prefabricated steel reinforced neoprene rubber railroad crossing pads				8/5/77		Trials installed 10/74, District 3; 10/75, District 6.
228	Fab-Ra-Cast Szarka Enterprises, Inc. Livonia, Michigan	Prefabricated concrete railroad crossing slabs				8/5/83		Trials installed 4/76 and 9/77, District 6.
229	No-Bel Joint Clow Corporation West Chicago, Illinois	Low profile PVC bell joint for clay pipe				8/28/73		Lab tested.
230	Drain Guard Advanced Drainage of Illinois, Incorporated Arthur, Illinois	Perforated corrugated polyethylene tubing with nonwoven nylon filter screen				12/1/78		601, 1040.11, 1040.12 Trials installed 10/75 and 8/76, District 6; 11/76, District 9.
231	Roadpatch Standard Dry Wall Products, Incorporated Miami. Florida	Fast setting concrete patching compound			X			Lab tested. Originally accepted 4/5/74. Not on the department's latest list of approved rapid hardening mortars.
232	Set Instant Concrete Repair Set Products, Incorporated Macedonia, Ohio	Fast setting concrete patching compound				9/23/81		Set Products, Inc. was purchased by Master Builders, Incorporated.

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233	Sta-Tuft Environmental Products Corporation Cincinnati, Ohio	Poly rubber mulch made from recycled tires					4/3/81	Trial installed 6/76, District 8.
234	Hi-Dri Cell Guardrail Blockout Energy Absorption Systems, Incorporated Chicago, Illinois	Lightweight concrete energy absorbing guardrail blockout					3/31/78	Trial installed 8/74, District 5. Insufficient durability.
235	Hydro-Ban RVN Membrane Hydro-Ban Corporation Westminster, California	Prefabricated interlayer membrane of PVC sheeting, nylon fabric, and neoprene					12/19/75	Trial installed 9/74, District 4.
236	Mas-Stik Concrete Products Supply Company Fort Wayne, Indiana	Preformed asphalt mastic joint sealer for culvert and sewer pipe				12/14/73		1056 In specifications 5/14/74.
237	Asphalt Mastic Rope Superior Sealers Company St. Louis, Missouri	Preformed asphalt mastic joint sealer for culvert and sewer pipe				12/14/73		1056 In specifications 5/14/74.
238	Butylfelt Storey Brothers and Company, Limited Lancaster, England	Prefabricated interlayer membrane of butyl rubber laminated to asphalt saturated felt					12/1/78	Trial installed 11/75, District 4.
239	Hyload Ruberoid Building Products, Limited London, England	Prefabricated interlayer membrane of fiber reinforced PVC modified coal tar					12/1/78	Trial installed 11/75, District 4.

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240	Gacoflex N-3S Gates Engineering Company, Incorporated Wilmington, Delaware	Prefabricated interlayer membrane of vulcanized neoprene					12/19/75	
241	Gacoflex UWM-28 Gates Engineering Company, Incorporated Wilmington, Delaware	Liquid-applied, two-component urethane interlayer membrane					11/30/76	
242	Superseal 4000 Superior Products Co. Inc. Oakland, California	Hot liquid-applied PVC modified coal tar interlayer membrane				12/14/79		Trial installed 8/74, District 8. Approved for patching only.
243	Oneida Structural Foam Oneida Manufacturing Ogden, Utah	Prefabricated polyethylene railroad crossing pads					12/1/78	Trial installed 8/75, District 1.
244	Nexon U. S. Steel Corporation Pittsburgh, Pennsylvania	Resin-modified coal tar laminated coating for steel culvert pipe				4/5/74		Permitted as an alternate to bituminous coating.
245	Steelplank Steelplank Corporation Wyandotte, Michigan	Prefabricated steel railroad crossing					9/7/79	Lab tested. Trials installed 10/77, District 8; 8/78, District 9.
246	Black Magic CPR Pavon Corporation Kansas City, Missouri	Cold poured emulsified rubber-asphalt joint sealer					9/26/75	Lab tested.
247	Track-Span Fel-Pro, Incorporated Skokie, Illinois	Cast-in-place rubber epoxy railroad crossing					8/5/83	Trials installed 9/74 and 9/76, District 1; 5/77, District 2; 9/77 and 9/78, District 3.
248	Saf & Dri Structural Rubber Products Company Springfield, Illinois	Prefabricated rubber encapsulated steel railroad crossing				12/1/78		Trial installed 6/76, District 3.

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249	Permabit 60 Briggs Amasco, Limited London, England	Prefabricated interlayer membrane of fiber reinforced bitumen polymer					8/5/77	Trial installed 11/75, District 4.
250	Copper Smelter Slag Universal Oil Products Co. Des Plaines, Illinois	Reverberatory furnace copper smelter slag for skid resistant overlays					3/11/77	Not competitive.
251	Scotchkote Resin No. 202 Minnesota Mining and Manufacturing Company St. Paul, Minnesota	Powder-applied epoxy coating for dowel bars				12/6/74		420.10, 1006.11
252	Flex-Lok Midwest Manufacturing Corporation Burlington, Iowa	Urethane foam preformed expansion joint filler					X	Lab tested. Originally accepted 5/16/75, later rejected because of poor field performance and high cost.
253	Forward Proven Products, Inc. Portland, Oregon	Polyethylene louver-type glare screen				7/25/80		630, 1086.01 Trials installed 6/77, District 5; 6/80, District 8.
254	Blac-Klad Inland Steel Company Chicago, Illinois	Ethylene-acrylic laminated coating for steel culvert pipe				5/16/75		1006.01 Permitted as an alternate to bituminous coating.
255	Poly-Filter X Carthage Mills, Inc. Cincinnati, Ohio	Woven polypropylene fabric filter for drainage and erosion control structures				5/16/75		1080.01, 1080.02, 1080.05
256	Silicone Alkyd Dow Corning Corporation Midland, Michigan	Silicone alkyd co-polymer paint base for finish coats for bridges				12/19/75		Special provision. Lab tested.

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257	Terra Tack II Grass Growers, Inc. Plainfield, New Jersey	Sodium lamarin-calcium sulfate mulch binder				12/4/81		251, 1081 Trials installed 11/80, District 2; 10/79, District 4.
258	Plasti-Flo Penn-Berks Corporation Bethel, Pennsylvania	PVC plastic semi-circular underdrain pipe					7/31/81	Trial installed 10/79, District 4.
259	SS-40 Fence Pipe Allied Tube and Conduit Corporation Harvey, Illinois	Galvanized fence pipe with acrylic coating				9/26/75		1006.27, 1006.28
260	Gen-Trac General Tire and Rubber Company Wabash, Indiana	Prefabricated steel reinforced elastomeric railroad crossing				12/1/78		
261	PVC Underdrain Hurlbut Plastic Pipe Corp. Madison, Wisconsin	PVC perforated underdrain pipe				12/1/78		601, 1040 Trials installed 9/76, District 5; 7/77, District 2.
262	Sylvax UPM Sylvax Chemical Corp. Great Neck, New York	Asphalt stockpile patching mix				8/5/77		“M” specification M 133 Trial installed 10/75, District 8.
263	Empigard Empire Plating Company Cleveland, Ohio	Passivated sacrificial coating with polymer surface seal					9/7/79	Trial installed 12/75, District 8.
264	Hold/Gro Gulf States Paper Corp. Tuscaloosa, Alabama	Paper-polypropylene yarn erosion control fabric				3/31/78		Trials installed 10/76 and 7/77, District 6.
265	Melnar-8 W. R. Meadows, Inc. Elgin, Illinois	Prefabricated interlayer membrane of PVC sheeting, fiber glass, and asphalt saturated felt			12/12/77			Withdrawn by vendor.

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266	Dreco PVC Pipe Drainage Engineering Corporation Benton, Illinois	PVC storm sewer pipe				12/1/78		550 For diameters up to 15 inches. Trial installed 9/77, District 6.
267	Corrugated Steel Storm Sewers Illinois Corrugated Steel Pipe Association, Inc. Hinsdale, Illinois	Corrugated steel storm sewer pipe					X	Precoated and fully lined pipe was originally accepted 11/30/76 and in specifications 7/1/77. As of 2/1/96, no longer allowed for storm sewers.
268	Dow Mulch Binder Dow Chemical Company Midland, Michigan	Styrene-butadiene latex emulsion mulch binder				12/4/81		251, 1081 Trial installed 10/79, District 4.
269	Bidim Monsanto Textiles Co. St. Louis, Missouri	Needle punched nonwoven polyester filter fabric				7/30/76		Currently sold under trade name Trevira and manufactured by Hoechst Fibers Industries.
270	Uni-Pak Mobil Chemical Company Kankakee, Illinois	Single package inorganic zinc primer for steel					X	Originally accepted 8/5/83. Later rejected, two-component system is now required.
271	Enkamat American Enka Company Enka, North Carolina	Nylon-polyurethane erosion control matting				3/31/78		283, 1081.10 Trial installed 9/77, District 6.
272	Plastix SD Prismo Universal Corp. Rockville, Maryland	Preformed thermoplastic traffic markings				4/3/81		Trials installed 8/77, District 1; 11/76, District 2.
273	Thompson's Water Seal E. A. Thompson Co., Inc. Hollister, California	Penetrating concrete surface sealer					7/25/80	Lab tested.
274	Four Seasons Bituminous Premix Emulsified Asphalts, Inc. Chicago, Illinois	Cut-back asphalt emulsion stockpile patching mix				3/11/77		See "M" specifications M17-95 and M48-79 Emulsified Asphalts, Inc. was purchased by Koch Materials.

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275	Checker Block Hastings Pavement Company, Inc. Lake Success, New York	Perforated precast concrete paving block					8/29/86	Trials installed 7/85, District 2; 12/84 and 9/85, District 8.
276	Stamark Minnesota Mining and Manufacturing Company St. Paul, Minnesota	Preformed thermoplastic traffic markings				4/3/81		Trials installed 6/77, District 1; 7/79, District 4.
277	Uniroyal Railroad Crossing Uniroyal, Incorporated Mishawauka, Indiana	Prefabricated steel reinforced polyurethane railroad crossing pads			3/31/78			Withdrawn by vendor.
278	Parkco Park Rubber Company Lake Zurich, Illinois	Prefabricated steel reinforced rubber railroad crossing					3/28/86	Trials installed 9/77, District 1; 9/78, District 8.
279	Driscopipe 7600 Phillips Products Co., Inc. Dallas, Texas	Ultra high molecular weight polyethylene pipe for insertion lining of culverts and storm sewers				12/16/83		542, 543, 1040.16 Trials installed 11/81, Illinois Tollway; 5/83, District 6; 10/82, District 8.
280	Quik Rok Preco Industries, Limited Plainview, New York	Flash setting nonshrink grout for setting anchor bolts			X			Originally approved 12/12/77. Not on the department's latest list of approved non-shrink grouts.
281	Perforated Concrete Tile Economy Tile Company Economy, Indiana	Perforated concrete tile for pipe underdrain			X			Originally accepted 12/12/77. No longer in specifications. May not be available anymore.
282	Hydrotube Wheeling Service and Supply, Incorporated Woodstock, Illinois	Perforated corrugated steel pipe underdrain					4/3/81	
283	Eze-Erect Sign Post Franklin Steel Company Franklin, Pennsylvania	Bolted base steel channel sign post				9/7/79		1006.29 Trials installed 10/78, District 1; 5/79, District 2.

COUNCIL RECOMMENDATION

NO.	PRODUCT NAME MANUFACTURER	DESCRIPTION	EVALUATION IN PROGRESS FIELD TEST	 LAB TEST	 OTHER	EVALUATION COMPLETED ACCEPT	 REJECT	REFERENCE TO STANDARD SPECIFICATIONS REMARKS
284	Armco Noise Barrier Armco Steel Corporation Middletown, Ohio	Prefinished steel panel wall noise barrier					5/9/03	Originally accepted 9/7/79. Rejected because it does not meet current noise reduction requirements.
285	Dylex Latex 1186 Tex-Crete, Incorporated Gurnee, Illinois	Styrene-butadiene polymer latex concrete modifier				3/31/78		
286	Fondu Lone Star LaFarge Co. Norfolk, Virginia	Calcium aluminate cement for patching mixes					4/3/81	Lab tested. See also product proposal no. 397, Pyrament 505.
287	Set Non-shrink Grout Set Products, Incorporated Macedonia, Ohio	Non-shrink grout for setting anchor bolts				3/31/78		505.02, 505.08, 510.06 Set Products, Inc. was purchased by Master Builders, Incorporated.
288	Semperit-Bodan Grade Crossing Meadowbrook Enterprises, Incorporated Millbury, Massachusetts	Prefabricated concrete railroad crossing					12/16/83	1095.04 Trials installed 8/79, 7/80, and 9/80, District 1; 6/80, 9/80, District 4; 6/81, District 6.
289	Highway Striping Epoxy Compounds H. B. Fuller Company St. Paul, Minnesota	Hot applied epoxy traffic marking				8/24/84		1095.04 Trial installed 8/79, District 8.
290	Corrugated Steel Pipe National Corrugated Steel Pipe Association Glenview, Illinois	Corrugated steel pipe culverts for high type pavements					3/15/85	
291	Ritza Glaretamer Julius Koch USA, Inc. New Bedford, Massachusetts	Polyester mesh glare screen system					12/6/85	Trial installed 4/85, District 1.
292	Albitol American Vamag Co., Inc. Ridgefield, New Jersey	Bonding agent and additive for portland cement concrete			X			Withdrawn.

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NO.	PRODUCT NAME MANUFACTURER	DESCRIPTION	EVALUATION IN PROGRESS FIELD TEST	 LAB TEST	 OTHER	EVALUATION COMPLETED ACCEPT	 REJECT	REFERENCE TO STANDARD SPECIFICATIONS REMARKS
293	Delugrip Dunlop, Limited London, England	Skid-resistant dense graded asphalt hot mix					4/2/82	Trial installed 9/77, Illinois Tollway.
294	Aluminized Steel Type 2 Corrugated Metal Pipe Armco Steel Corporation Middletown, Ohio	Aluminum coated steel culvert pipe and structural plate				12/1/78		542, 1006
295	P-221 Fibers DuPont and Company, Inc. Wilmington, Delaware	Polyester fiber additive for asphalt mixes					4/3/81	
296	Alidrain Vibroflotation Foundation Company Pittsburgh, Pennsylvania	Prefabricated wick type vertical drain				12/4/81		Trial installed 8/79, District 8.
297	Cyclogen Witco Chemical Company Bakersfield, California	Asphalt rejuvenating agent for recycling				4/13/84		Lab tested. Trials installed 10/79, 5/80, and 8/80, District 1.
298	Mirafi 500X Celanese Fibers Marketing Company Charlotte, North Carolina	Woven polypropylene fabric for subgrade stabilization				12/4/81		1080.02 Trials installed 10/80, District 1; 7/79, District 6.
299	Set 45 Set Products, Incorporated Macedonia, Ohio	Magnesium phosphate based fast setting concrete patching compound				9/7/79		Set Products, Inc. was purchased by Master Builders, Incorporated.
300	Asphadur Minnesota Mining and Manufacturing Company St. Paul, Minnesota	Stability additive for asphalt hot mixes					7/9/82	Trial installed 9/79, District 6.

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301	Epoflex Southwest Research Institute San Antonio, Texas	Nonproprietary hot applied epoxy traffic marking					12/14/84	Trials installed 10/80, District 2; 7/79, District 6.
302	Verglimit P. K. Distributing Company Hamilton, Ontario	Calcium chloride based anti-icing admixture for asphalt mixes					4/2/82	Trial installed 9/79, District 5.
303	Over-Flex Sahuaro Petroleum and Asphalt Company Phoenix, Arizona	Asphalt-rubber mixture for stress absorbing membrane, stress absorbing membrane interlayer, joint sealing, and crack sealing				7/31/81		Trials installed 8/80 and 9/85, District 1; 6/78, District 5; 4/79, 5/80, and 11/80, District 6. Approved for stress absorbing membrane interlayer (SAMI) 7/25/80. Approved for joint and crack sealing 7/31/81.
304	Aluminum Box Culvert Kaiser Aluminum, Inc. Oakland, California	Aluminum plate box culvert				8/25/89		Trials installed 10/79, 10/82, District 3. Approval based on AASHTO Bridge Design Section 12.7.
305	Darex Corrosion Inhibitor W. R. Grace and Company Cambridge, Massachusetts	Calcium nitrite corrosion inhibiting admixture for concrete				12/14/79		Special provision
306	Chain Link Fence Glare Screen U. S. Steel Corporation Chicago, Illinois	Small mesh chain link fence fabric glare screen				12/14/79		640, 1006.26, 1006.27
307	Galvalume Bethlehem Steel Corp. Bethlehem, Pennsylvania	Aluminum-zinc alloy coated steel culvert sheet				3/15/85		Trials installed 3/81, 4/81, District 6.

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308	Corrugated Polyethylene Culvert Advanced Drainage Systems, Incorporated Columbus, Ohio	Large diameter corrugated polyethylene tubing for culverts			X			Originally accepted 8/9/85. Use discontinued following supplemental specification dated 2/1/96 which required a smooth interior.
309	Instant Road Repair Emcol of Illinois, Inc. Chicago, Illinois	Packaged bituminous patching compound				12/5/80		1009 Trials installed 2/80, 4/80, District 1; 11/79, District 6.
310	Steel Slag Heckett Engineering Co. Chicago, Illinois	Steel slag aggregate for bituminous mixes				4/3/81		1003, 1004 Approved for Class I bituminous mixes only.
311	Franklin Polyester Coating Franklin Steel Company Franklin, Pennsylvania	Powder applied polyester coating for sign posts				7/9/82		
312	Elastizell Concrete Elastizell Corporation of America Ann Arbor, Michigan	Foamed concrete for lightweight fill and backfill				8/5/83		Trial installed 9/82, District 1.
313	Nophalt Chem-Crete Corporation Menlo Park, California	Specially processed asphalt for high stability and reduced temperature susceptibility					2/6/87	Trial installed 9/80, District 8.
314	Dutrex 757 Shell Oil Company Tulsa, Oklahoma	Asphalt rejuvenating agent			X			Originally accepted 4/13/84. No longer available.
315	Five Star Highway Patch U. S. Grout Corporation Riverside, Connecticut	Fast setting concrete patching material				4/3/81		Lab tested.

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316	Weyerhaeuser Glulam Railroad Crossing Weyerhaeuser Company Albert Lea, Minnesota	Laminated wood railroad crossing			7/31/81			Withdrawn by vendor.
317	Modular Track Span Fel-Pro, Incorporated Skokie, Illinois	Modular epoxy-rubber railroad crossing			7/9/82			Withdrawn by vendor.
318	Noishield Industrial Acoustics Co. Bronx, New York	Prefinished steel acoustic panel noise barrier					8/24/90	Trials installed 10/85, 7/90, District 8.
319	Solar-Laglugel NHI, Limited Chicago, Illinois	Nylon gel additive for asphalt cement					4/7/89	Trials installed 11/80, 9/83, and 10/83, District 1.
320	Saf & Dri Model C Structural Rubber Products Company Springfield, Illinois	Prefabricated rubber-encapsulated steel railroad crossing				7/9/82		Trials installed 7/80 (3) and 8/80, District 1; 5/81, District 3; 5/81, District 6.
321	Roadglas Owens-Corning Fiberglas Corporation Granville, Ohio	Woven fiber glass fabric for control of reflective cracking				8/24/84		444, 1063 Trials installed 11/80, District 1; 10/81, District 4; 10/81, District 6. Approved for D-cracked CRC pavements.
322	Stamark Detour Grade Minnesota Mining and Manufacturing Company St. Paul, Minnesota	Preformed removable pavement marking tape				12/5/80		1095.06 Trial installed 6/80, District 1.
323	Koppers Sound Barrier Koppers Company, Inc. Pittsburgh, Pennsylvania	Non-proprietary V-groove wood plank noise barrier					5/9/03	Originally accepted 4/3/81. Rejected because it does not meet current noise reduction requirements.
324	Polysar Latex Polysar, Incorporated Chattanooga, Tennessee	Latex modifier for asphalt cement				7/31/81		

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325	Fiber Pave Hercules, Incorporated Wilmington, Delaware	Polypropylene fiber additive for asphalt				8/5/83 4/7/89		M126-95 -AC additive. Trial installed 11/81, District 5. Check Sheet #18. Used for shoulder sealing 1985, District 5.
326	Epoxy Modified Concrete Celanese Plastics and Specialties Company Louisville, Kentucky	Epoxy modifier for portland cement concrete			12/14/84			1021 Withdrawn by vendor.
327	Welded Beam Guardrail Post Welded Beam Corporation Perry, Ohio	Resistance welded W6x8.5 structural shape for guardrail posts				12/4/81		
328	Prismoseal A2 Prismo Universal Corp. Parsippany, New Jersey	Rubberized asphalt for crack and joint sealing					2/6/87	Trial installed 6/85, District 1.
329	CRF Crack Filler Witco Chemical Company Bakersfield, California	Emulsified asphalt with rejuvenator for sealing cracks in bituminous pavements					12/3/82	Trials installed 5/81, District 3; 10/80, 8/81, District 8.
330	Chem-Trete BSM Dynamit Nobel Montvale, New Jersey	Organosilane surface for portland cement concrete			X			1026 Originally approved 12/4/81. Not on the department's latest list of approved bridge seat sealers.
331	Hollow Shell Median Barriers Lone Star Polymer Concrete Company Greenwich, Connecticut	Precast polymer concrete shells for concrete median barriers			2/7/92			Withdrawn by vendor.
332	CRS-2S Asphalt Emulsion Bitucote Products Co. St. Louis, Missouri	Asphalt emulsion with Styrelf styrene butadiene polymer for seal coats					8/29/86	403, Special provision Trials installed 9/82, District 5; 9/81, District 8.

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333	HFM-P Emulsion Prime Louis Marsch, Incorporated Morrisonville, Illinois	Penetrating asphalt emulsion prime				12/3/82		Special provision Trial installed 5/82, District 6. Now designated PEA.
334	Aluminized Steel Type 2 Fence Tubing Armco, Incorporated Middletown, Ohio	Aluminized steel type 2 tubular fence posts and rails				4/2/82		1006.27
335	CorBan RPM Liner Pipe Armco, Incorporated Middletown, Ohio	RPM pipe for insertion lining of culverts and storm sewers				12/16/83		543, 1040.17 Trials installed 10/83, District 5; 9/82, 5/83, District 6.
336	Erosion Control Netting Conwed Corporation St. Paul, Minnesota	Lightweight plastic mesh to hold loose mulch in place				8/5/83		Trial installed 10/82, District 1.
337	Hydro Mulch Overspray Conwed Corporation St. Paul, Minnesota	Wood cellulose fiber overspray tacking for straw mulch				7/9/82		1081.06 Trial installed 6/82, District 2.
338	Omni Shimless Grade Crossing Precured RDF Tirefill, Inc. Portland, Oregon	Prefabricated full-depth rubber railroad crossing				5/4/88		
339	FRP Road Signs Owens-Corning Fiberglas Corporation Toledo, Ohio	Fiber glass reinforced plastic sign substrate				8/25/89		Trial installed 12/82, District 6. Approved for local use.
340	Low Profile Steel Box Culvert Lane Metal Products Company, Incorporated Camp Hill, Pennsylvania	Corrugated steel structural plate box culvert				8/25/89		Approval based on AASHTO Bridge Design Section 12.7.

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341	Perma Loc Johns-Manville Products Corporation Denver, Colorado	Ribbed large diameter PVC pipe for culverts and storm sewers				8/25/89		542, 550, 1040.24 Trial installed 10/83, District 2.
342	V Loc Socket System Foresight Industries, Inc. Cheyenne, Wyoming	Yielding base post support for delineators, sign posts, and fence posts			3/15/85			Withdrawn by vendor. Trial installed 2/83, District 6.
343	MDM Drainage Mat Monsanto Company St. Louis, Missouri	Mat-type underdrain for use without permeable backfill					1995	Trials installed 10/84, District 1; 7/83, District 3; 10/84, District 6. Originally accepted 12/14/84. Later rejected because of structural problems in the field.
344	HFE-90S Bituminous Materials Company, Incorporated Terre Haute, Indiana	High float emulsion of polymer modified asphalt for chip seals				4/7/89		Special provision. Now designated HFP. Bituminous Materials Company was purchased by Koch Materials.
345	Ceramar W. R. Meadows, Inc. Elgin, Illinois	Foamed plastic preformed expansion joint filler				X		1051.09 Originally rejected 10/9/87 because of poor field performance. Later incorporated in standard specifications.
346	Spirolite Spiral Engineered Systems Norcross, Georgia	Ribbed large diameter polyethylene pipe for culverts				12/18/87		542, 1040.23
347	Gemcrete Gemite Unique Products, Incorporated Rexdale, Ontario	Glass fiber cement additive for cement/sand/mortar mixes				4/7/89		Trials installed 11/83 and 9/85, District 1; 10/84, District 6.
348	Insituform Insituform of North America, Incorporated Memphis, Tennessee	Cured in-place plastic sleeve liner for storm sewers				8/25/89		Trial installed 1/84, District 3.

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349	Gen-Trac II General Tire and Rubber Company Wabash, Indiana	Reversible steel-reinforced elastomeric railroad crossing			12/14/84			Withdrawn by vendor.
350	Strail Hi-Rail Gummiwerk-Kraiburg Silver Springs, Maryland	Prefabricated full-depth rubber railroad crossing				8/29/86		
351	FRP Manholes Armco, Incorporated Middletown, Ohio	Segmental fiber glass reinforced plastic manhole liners				12/6/85		
352	Rosphalt 50 Royston Laboratories, Inc. Pittsburgh, Pennsylvania	Rubberized bitumen additive for low void sand asphalt hot mixes					12/18/87	
353	K-Zinc 531 Inorganic Coatings, Inc. West Chester, PA	Water-based inorganic zinc bridge paint			7/28/00		10/29/93	One coat system rejected 10/29/93. Three coat system withdrawn 7/28/00. Company no longer in business.
354	L-300 Snow Fence DuPont Canada, Inc. Mississauga, Ontario	Heavy duty polyester netting snow fence				8/29/86		M131-92
355	Rockbond Elborg Technology Co. Pittsburgh, Pennsylvania	High strength microsilica concrete for bridge deck overlays				4/7/89		Guide Bridge Special Provision GBSP29-3. Special provision is generic. There is no approved list for microsilica.
356	Halox Hammond Lead Products Hammond, Indiana	Calcium boro silicate corrosion inhibiting pigment for bridge paints					8/4/95	
357	Nalzin 2 NL Chemicals Hightown, New Jersey	Zinc hydroxy phosphite pigment for bridge paints					7/22/94	

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358	Cobra-X Railroad Friction Products Corporation Wilmerding, Pennsylvania	Modular expanded polyethylene railroad grade crossing					8/25/89	Trial installed 5/85, District 5.
359	Koppers Wear Guard Koppers Company, Inc. Pittsburgh, Pennsylvania	Modular timber railroad grade crossing with expanded polyethylene wearing surface					8/25/89	Trials installed 5/86, District 6; 9/86, District 3.
360	Carsonite Modular Glare Screen Carsonite International Corporation Carson City, Nevada	Modular louver-type glare screen				12/6/85		638, 1086.01 Trial installed 4/85, District 1.
361	IBC Mk-7 Barrier International Barrier Corp. New York, New York	Free-standing sand-filled median barrier					12/4/92	
362	A-2000 Armco, Incorporated Middletown, Ohio	Smooth bore corrugated exterior PVC pipe for storm sewers and underdrains				12/6/85		542, 543, 550, 601, 1040 Trial installed 3/85, District 1.
363	Miramat Mirafi, Incorporated Charlotte, North Carolina	Vinyl erosion control matting					5/4/88	
364	Evercrete Noise Barrier Evercrete, Limited Maple, Ontario	Precast concrete noise barrier			12/4/92			Withdrawn by vendor.
365	Curbstone Curbstone, Incorporated St. Paul, Minnesota	Precast concrete curb				8/29/86		Subject to conformance with MUTCD standards.

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366	Cadilloc Cadilloc External Pipe Joint, Incorporated Escanaba, Michigan	External sealing band for concrete pipe				8/24/84		1057
367	Enkadrain American Enka Company Enka, North Carolina	Polyester-nylon composite drainage mat for retaining wall drains					4/7/89	Trials installed 8/85, 11/85, District 1.
368	Neutra-Rust American Sales Co., Inc. Bethel, Connecticut	Acrylic polymer rust converter`					12/18/87	
369	Microfil 8 Cabot Corporation Billerica, Massachusetts	Carbon black additive for bituminous mixtures					12/18/87	
370	Tensar Snowfence Tensar Corporation Morrow, Georgia	Polyethylene expanded grid mesh snow fence				8/14/92		“M” specification M131-92
371	Spiral Rib Pipe Pacific Spiral Rib Pipe Newport Beach, California	Galvanized steel pipe with rectangular external rib corrugations				5/4/88		
372	Southern Main Line Crossing Structural Rubber Products Company Springfield, Illinois	Prefabricated concrete railroad crossing				4/7/89		Trial installed 10/86, District 8.
373	Busan 11-M1 Buckman Laboratories, Incorporated Memphis, Tennessee	Barium metaborate corrosion-inhibiting pigment for bridge paints					7/24/94	Trials installed 7/87, District 4; 7/88, District 6.

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374	Ero-Mat Armco, Incorporated Middletown, Ohio	Knitted straw mat erosion control blanket				5/29/87		251, 1081.10 Trials installed 7/86, District 1; 3/85, 9/85, District 6.
375	Perma-Soil Ditch Witch, Incorporated Perry, Oklahoma	Silicate based polymer hydrogel soil stabilizing agent					8/9/85	
376	Plastic-Bore Lane Metal Products Company, Incorporated Camp Hill, Pennsylvania	Corrugated steel pipe with smooth bore PVC liner for storm sewers and culverts				12/6/85		542, 550, 1006
377	Bongossi North American Hacon, Incorporated Doylestown, Pennsylvania	Tropical hardwood for bridge, marine structures, and noise barriers					5/9/03	Trials installed 9/87, District 4; 10/89, 5/90, District 1. Originally accepted 8/24/90. Rejected because it does not meet current noise reduction requirements.
378	Pittguard DTR PPG Industries Pittsburgh, Pennsylvania	Epoxy bridge paint			2/7/92			Withdrawn by vendor.
379	Topcoat Polyester Powder Armstrong Products Co. Warsaw, Indiana	Polyester powder coating for guardrail and steel posts			5/4/88			Withdrawn by vendor.
380	Carbomastic 15 Carboline Company St. Louis, Missouri	Aluminum pigmented epoxy bridge paint				8/25/89		Special provision Approved for case-hardened steel.
381	Parkco Lag Down Crossing Park Rubber Company Lake Zurich, Illinois	Longitudinal shim, steel reinforced rubber railroad crossing				5/4/88		
382	Smooth Cor Caldwell Culvert Company North Little Rock, Arkansas	Smooth lined precoated corrugated steel storm sewer pipe				3/28/86		550, 1006.01

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383	Akwadrain American Wick Drain Co. Matthews, North Carolina	Mat-type wall underdrain for use without permeable backfill					5/3/91	
384	Poz-Loc Post and Socket Assembly Southwestern Pipe, Inc. Houston, Texas	Socket, wedge, and post assembly for signs				5/4/88		
385	FAST Corner Assembly (fence) FAST Company Crane, Missouri	Fence corner post and brace assembly				2/6/87		665
386	Lock-Post (fence) Pegfence International, Incorporated Des Plaines, Illinois	Steel wedge-shaped fence post anchor			12/8/89			Withdrawn by vendor.
387	Geoblock Landscaping System Presto Products, Inc. Appleton, Wisconsin	Plastic paving blocks for landscaping purposes					2/6/87	
388	Epflex Railseal Interface Epton Industries, Incorporated Kitchener, Ontario	Elastomeric rail seal interface between rail and crossing material				9/20/91		Trials installed 9/88, District 1; 10/88, District 2; 10/89, District 3.
389	Anchor-It Adhesives Technologies Corporation Kent, Washington	Epoxy anchoring grout in a cartridge system				2/6/87		584, 1025.04
390	ADS End Sections Advanced Drainage Systems, Incorporated Columbus, Ohio	Polyethylene culvert pipe end sections					12/8/89	Trials installed 4/88, District 1; 8/88, District 2; 5/88, District 5; 5/88, District 8.

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391	P300 Erosion Control Blanket North American Green Evansville, Indiana	Erosion control/revegetation mat				8/24/90		Special provision Trials installed 5/87, District 6; 11/88, District 1; 11/88, District 4.
392	Sentre Guardrail Terminal Energy Absorption Systems, Incorporated Chicago, Illinois	Safety barrier end treatment			12/18/87			Referred to Bureau of Materials and Physical Research. Trial installed 6/86, District 1.
393	Tri-Lock American Excelsior Lombard, Illinois	Precast concrete revetment mat for erosion control				2/7/92		281, 1005.02
394	Poroswall Pipe Walker Poroswall Pipe Company Little Ferry, New Jersey	Porous concrete underdrain pipe					8/24/90	Not cost effective.
395	Vehicle Attenuator Terminal Syro Steel Company Girard, Ohio	Crashworthy end anchorage for W-beam guardrail			12/18/87			Referred to Bureau of Materials and Physical Research.
396	Sno-Strap Signode Corporation Glenview, Illinois	Snow fence strap					12/18/87	
397	Pyrament 505 Pyrament/Lone Star Industries, Incorporated Houston, Texas	Packaged mortar for high early strength PCC patching			X			Originally accepted 7/22/94. No longer available.
398	Flexolith Dural International Corp. Deer Park, New York	Epoxy overlay for concrete filled steel grid bridge decks				12/18/87		

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399	Tie Collar Assembly Sibley Machine and Foundry Corporation South Bend, Indiana	Rail-highway grade crossing subgrade support system					10/29/93	Trials installed 9/89, District 9; 10/89, District 1.
400	Nelson Railchair Nelson Iron Works Seattle, Washington	Railchair for rail-highway grade crossings				12/18/87		
401	Sealer-Healer 1540 Monomer Rohm and Haas Company Spring House, PA	Portland cement concrete crack sealer					4/7/95	Trials installed 4/87, 5/89, District 8.
402	Anticorrosive Highway Deicer Cargill, Incorporated Minneapolis, Minnesota	Sodium chloride with corrosion inhibitor			2/7/92			Withdrawn by vendor.
403	Air-O-Form Concepts in Concrete, Inc. Tulsa, Oklahoma	Air bag forming system for arch culverts			2/7/92			Withdrawn by vendor.
404	Ralumac Micro-Surfacing Midwest Ralumac Columbus, Ohio	Polymer modified asphalt emulsion slurry seal				4/20/90		1009.07(e) Trials installed 7/88, 9/89, District 4; 9/89, District 9; 10/89, District 6.
405	Ultra-Rib Extrusion Technologies, Incorporated Denver, Colorado	Smooth interior, ribbed exterior, PVC pipe for storm drains				4/7/89		542, 550, 1040.24, 1040.25
406	Red Hawk Full Depth Rubber Crossing Red Hawk Rubber Co. McHenry, Illinois	Full-depth rubber railroad crossing				9/20/91		Trials installed 5/89, District 2; 6/89, District 3; 5/90, District 9. Company bought out by Omni.

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407	Delcrete Elastomeric Concrete D. S. Brown Company North Baltimore, Ohio	Sand and fiber glass fortified urethane resin for bridge expansion joint nosings				8/14/92		Special provision Trial installed 6/90, District 6. Accepted where time constraints justify it use.
408	Hy-Span Hyway Concrete Pipe Co. Findlay, Ohio	Precast reinforced concrete three-sided structure				8/25/89		Guide Bridge Special Provisions GBSP15-1 and GBSP16-1
409	Koppers Wear Guard (Rubber) Koppers Industries, Inc. Pittsburgh, Pennsylvania	Steel reinforced, rubber paneled, railroad crossing					8/25/89	Trials installed 10/88, 11/88, District 4; 5/89, District 2.
410	Applegate Mulch American Cellulose Manufacturing, Inc. Minonk, Illinois	Cellulose fiber mulch for use in hydromulching`				2/7/92		251, 1081.06
411	Tensar Erosion Mat-NS3000 Tensar Corporation Morrow, Georgia	Erosion control mat for use as an alternate to riprap in ditch lining				8/23/96		1081.10(e) Product name changed to TM3000.
412	SACI Corrosion Inhibitor Witco Corporation New York, New York	Complex concentrate for formulating protective coatings for steel				8/25/89		Special provision
413	Jeene Jeene Technology Corp. Lauderhill, Florida	Joint seal for bridge expansion joints				8/14/92		Special provision Allowed for 1” to 4” wide openings.
414	Five Star Structural Concrete V/O Five Star Products, Inc. Fairfield, Connecticut	Concrete repair mortar specifically formulated for vertical and overhead applications				8/25/89		Special provision

COUNCIL RECOMMENDATION

NO.	PRODUCT NAME MANUFACTURER	DESCRIPTION	EVALUATION IN PROGRESS FIELD TEST	 LAB TEST	 OTHER	EVALUATION COMPLETED ACCEPT	 REJECT	REFERENCE TO STANDARD SPECIFICATIONS REMARKS
415	Conlock Concrete Blocks Hydro-Turf and Associates, Incorporated Gilbert, Illinois	Precast concrete interlocking erosion control system				4/23/93		1005.02
416	SuperGro 758 Phillips Fibers Corporation Greenville, South Carolina	Polypropylene fiber erosion control blanket			9/25/98			Product line sold to Amoco. Withdrawn without prejudice.
417	Railroad Prefabricated Crossing-Century Precast Concrete Century Precast Sulphur, Louisiana	Precast, reinforced concrete railroad crossing					9/25/98	Originally accepted 4/23/93, later rejected in favor of frameless model.
418	Pavetech Bridge Joint System Pavetech BJS, Inc. Greensboro, North Carolina	Asphalt plug-type bridge expansion joint					7/22/94	Poor field performance.
419	PS 100 Mulch Blanket Proseed (U.S.A.), Inc. San Marcos, Texas	Erosion control blanket consisting of bonded bermuda grass fibers					10/29/93	
420	P.A.C.E. Pittenger and Cook Engineering, Incorporated Mundelein, Illinois	Full-depth rubber grade crossing					12/2/94	Poor field performance. New field tests conducted 1996-1998. New tests validated original conclusion to reject. Company sold to Rail-Way, Inc. of Cascade, Iowa.
421	Steelflex SSCM Strip Seal D. S. Brown Company North Baltimore, Ohio	Steel armor plate and neoprene gland bridge expansion joint				8/4/95		Special provision
422	Hi-Miler Goodyear Tire and Rubber Company St. Marys, Ohio	Rubber/corrugated steel reinforced railroad crossing pads				7/22/94		

COUNCIL RECOMMENDATION

NO.	PRODUCT NAME MANUFACTURER	DESCRIPTION	EVALUATION IN PROGRESS FIELD TEST	 LAB TEST	 OTHER	EVALUATION COMPLETED ACCEPT	 REJECT	REFERENCE TO STANDARD SPECIFICATIONS REMARKS
423	Lignin LS-50 Prince Manufacturing Co. Quincy, Illinois	Dust control agent and stabilizer for roads				8/14/92		BLR & S specification Similar to proposal no. 135.
424	Dragnet Vehicle Arresting Barrier Entwistie Manufacturing Company Hudson, Massachusetts	Reusable vehicle arresting barrier				5/3/91		Special provision
425	Hot Tape Pave-Mark Corporation Atlanta, Georgia	Preformed pavement marking				X		1095.05 Accepted for use by Bureau of Traffic.
426	SRP Water Borne Vinyl The Glidden Company Maryland Heights, MO	Water reducible three coat vinyl system			X			Withdrawn without prejudice.
427	Xorex Steel Fibers Novocon International Inc. Mt. Prospect, Illinois	Steel fiber additive for PCC concrete					8/23/96	Field trial 6/92, District 1.
428	Sound Off Crane/Cor Tec Company Washington Court House, Ohio	Prefabricated sound barrier			9/25/98			Withdrawn without prejudice.
429	Extrudamat Fiberized Products, Inc. Hilliard, Ohio	Mixture of asphalt cement and short cut polypropylene fibers				9/20/91		Approved for crack filling.
430	Star Track II D & M Concrete of Carolina Atlanta, Georgia	Precast full depth concrete railroad grade crossing				8/23/96		Trials installed 6/94, 5/95, 7/95, District 1.
431	Cable Concrete McCann Concrete Products Dorsey, Illinois	Precast cable linked concrete block revetment mat for erosion control				1/31/97		1005 Approved for applications where aesthetics are a priority. Field trials installed 8/94, District 4; 12/95, District 5.

COUNCIL RECOMMENDATION

NO.	PRODUCT NAME MANUFACTURER	DESCRIPTION	EVALUATION IN PROGRESS: FIELD TEST	EVALUATION IN PROGRESS: LAB TEST	EVALUATION IN PROGRESS: OTHER	EVALUATION COMPLETED: ACCEPT	EVALUATION COMPLETED: REJECT	REFERENCE TO STANDARD SPECIFICATIONS: REMARKS
432	Concrete Arch Buried Bridge Lane Enterprises, Inc. Pulaski, Pennsylvania	Bridge structure			X			Withdrawn without prejudice.
434	Dow Corning 902 RCS Dow Corning Corporation Midland, Michigan	Joint sealant for bridge expansion joints				12/2/94		Special provision.
435	Diamond Wall System Northfield Block Company Mundelein, Illinois	Gravity retaining wall				8/14/92		Approved for heights up to 10 feet, provided blocks pass ASTM C666, procedure B.
436	Custom Rock Form Liner System Custom Rock International St. Paul, Minnesota	Form liner system for concrete				8/14/92		Architectural finish for concrete walls.
437	Railroad Prefabricated Crossing-Shunt Panel Fite Corporation Diamond Bar, California	Precast concrete grade crossing			9/9/96			Withdrawn without prejudice.
438	Versa-Lok Retaining Wall System Bend Industries/Ampress Des Plaines, Illinois	Modular gravity wall system for use as a geogrid reinforced soil structure				12/4/92		Approved for heights up to 10 feet, provided blocks pass ASTM C666, procedure B.
439	T-Wall The Neel Company Springfield, Virginia	Gravity and reinforced soil retaining wall system				4/23/93		Approved for heights up to 10 feet, pending Bureau of Bridges check for AASHTO conformance. Blocks must pass ASTM C666, procedure B.
440	NuPipe Insituform Technologies, Incorporated Memphis, Tennessee	Pipe liner	10/29/93					

COUNCIL RECOMMENDATION

NO.	PRODUCT NAME MANUFACTURER	DESCRIPTION	EVALUATION IN PROGRESS FIELD TEST	 LAB TEST	 OTHER	EVALUATION COMPLETED ACCEPT	 REJECT	REFERENCE TO STANDARD SPECIFICATIONS REMARKS
441	Durisol The Reinforced Earth Company Westmont, Illinois	Sound absorptive panel				10/29/93		Field trials 1986, District 8; 1991, District 1.
442	Flexcon 2000 Joint System R. J. Watson, Incorporated East Amherst, New York	Polysulfide seal for bridge expansion joints					12/2/94	Field trials installed 9/93, 11/93, District 8; 10/93, District 4; 5/94, District 7.
443	Goodyear Full Depth Rubber Crossing Goodyear Tire and Rubber Company St. Marys, Ohio	Full depth rubber railroad grade crossing				10/29/93		
444	Infiltrator Infiltrator Systems, Inc. Old Saybrook, Connecticut	Storm water retention system	10/29/93					
445	Dow Corning 888 Dow Corning Corporation Midland, Michigan	Non-sag silicone joint sealant				3/11/94		Special provision Field trials installed 1986, District 8; 1986, District 2.
446	Dow Corning 890-SL Dow Corning Corporation Midland, Michigan	Self-leveling silicone joint sealant					10/1/99	Field trial installed 9/96, District 1. Rejected because of poor field performance and lack of product support.
447	Inliner USA Inliner USA, Incorporated Houston, Texas	Cured in-place pipe liner				3/11/94		
448	Union Pacific Precast Concrete Road Crossing Union Pacific Railroad Co. St. Louis, Missouri	No lag precast concrete railroad crossing surface					8/23/96	Field trials installed 9/94, District 4; 10/94, District 9; 8/95, District 3.
449	KSA Full Width Concrete Grade Crossing Koppers-Sherman-Abetong Pittsburgh, Pennsylvania	Frameless precast concrete railroad crossing surface				9/25/98		Field trials installed 9/94, District 5; 6/95, District 8; 10/95, District 1.

COUNCIL RECOMMENDATION

NO.	PRODUCT NAME MANUFACTURER	DESCRIPTION	EVALUATION IN PROGRESS: FIELD TEST	EVALUATION IN PROGRESS: LAB TEST	EVALUATION IN PROGRESS: OTHER	EVALUATION COMPLETED: ACCEPT	EVALUATION COMPLETED: REJECT	REFERENCE TO STANDARD SPECIFICATIONS: REMARKS
450	Blacksmith Shunt Free Concrete Crossing Blacksmith RR Supply Orem, UT	Precast concrete railroad crossing surface			8/23/96			Withdrawn without prejudice.
451	Omni Standard Concrete Omni Products, Inc. McHenry, Illinois	Precast concrete railroad crossing				7/22/94		
452	Fence-Crete Faddis Concrete Products Downington, Pennsylvania	Precast concrete noise barrier					5/9/03	Originally accepted 12/2/94. Rejected because it does not meet current noise reduction requirements.
453	Siltsack Atlantic Construction Fabrics, Incorporated Richmond, Virginia	Secondary sediment control device			8/6/04			Field trial installed 8/96, Effingham. Withdrawn without prejudice.
454	Pyramid The Reinforced Earth Co. Westmont, Illinois	Block retaining wall				12/2/94		Approved for heights up to 10 feet. Blocks must pass ASTM C666, procedure B.
455	Soundcore Advanced Storage Technology Amherst, New York	Precast concrete noise barrier wall				4/7/95		
456	Instant Road Repair II Safety Lights Houston, Texas	Asphalt cold mix for pothole patching				12/1/95		“M” Specification M133-96
457	TechStar W-Seal TechStar, Incorporated Findlay, Ohio	Bridge expansion joint					10/1/99	Field trials installed 5/97, 6/97, 6/97, District 4. Rejected because of poor field performance.
458	Pennzsuppress D Pennzoil Products Co. Maryland Heights, Missouri	Dust palliative			9/25/98			Withdrawn without prejudice.

COUNCIL RECOMMENDATION

NO.	PRODUCT NAME MANUFACTURER	DESCRIPTION	EVALUATION IN PROGRESS FIELD TEST	 LAB TEST	 OTHER	EVALUATION COMPLETED ACCEPT	 REJECT	REFERENCE TO STANDARD SPECIFICATIONS REMARKS
459	REACT 350 Roadway Safety Service, Incorporated Ronkonkoma, New York	Reusable barrier terminal				8/4/95		Special provision
460	Quick-Wedge Erico, Incorporated Solon, Ohio	Coupler for joining reinforcement bars					5/23/97	Installed in test patches 9/96, District 6.
461	Roadsaver Silicone 34902 Crafco, Incorporated Chandler, Arizona	Non-sag silicone joint sealant					9/5/03	Field trial installed 8/98, Mt. Vernon Airport. Rejected because of unsatisfactory (debonding) field performance.
462	Roadsaver Silicone 34903 Crafco, Incorporated Chandler, Arizona	Self-leveling silicone joint sealant					10/12/01	Field trials installed 8/96, Coles County Airport; 9/97, Effingham Airport; 11/97, St. Louis Downtown-Parks Airport; 8/98, St. Louis Regional Airport; 11/99, St. Louis Downtown-Parks Airport; 12/99, St. Louis Regional Airport. Rejected because of unsatisfactory field performance.
463	TruFlow Owens-Corning Corp. Toledo, Ohio	Asphalt coating for steel pipe	12/1/95					Field trial installed 4/96, Christian County.
464	Premier Advanced Panel Premier Concrete Railroad Crossings Portland, Oregon	Frameless precast concrete railroad crossing surface				9/25/98		Non-clad, lag down model only. Field trial installed 8/96, District 4.
465	Glare-Gaard Automotive Safety Transport, Incorporated Bellingham, Washington	Modular glare screen				12/1/95		638, 1086.01(c)
466	Century Precast Frameless Concrete RR Crossing Century Precast Sulphur, Louisiana	Precast concrete railroad crossing surface				9/25/98		Lag down model. Field trials installed 7/96, 7/96, District 8; 8/96, District 7; 8/96, 8/96, District 3.

COUNCIL RECOMMENDATION

NO.	PRODUCT NAME MANUFACTURER	DESCRIPTION	EVALUATION IN PROGRESS FIELD TEST	 LAB TEST	 OTHER	EVALUATION COMPLETED ACCEPT	 REJECT	REFERENCE TO STANDARD SPECIFICATIONS REMARKS
467	PolyDrain ABT, Incorporated Troutman, North Carolina	Trough-type pavement drain				4/26/96		
468	Verdyol XTRA Standard Verdyol Alabama, Inc. Pell City, Alabama	Combination wood and straw erosion control blanket				4/26/96		Special provision
469	C350 EC/TRM North American Green Evansville, Indiana	Coconut fiber erosion control blanket				4/26/96		Special provision
470	SC 150 North American Green Evansville, Indiana	Combination straw and coconut erosion control blanket				4/26/96		Special provision
471	Rheocrete 222+ Master Builders, Inc. Cleveland, Ohio	Corrosion inhibiting admixture				5/23/97		Special provision
472	FiberDowel RJD Industries, Inc. Laguna Hills, California	Fiber glass dowel bar	4/26/96					Field trials installed 8/96, District 6; 8/97, District 1; 5/99, District 6.
473	Grappler Virtual Industries, Inc. Eden Prairie, Minnesota	Rubber manhole riser				7/28/00		602, 603 Field trial 8/96, City of Naperville.
474	Dandy Bag Dandy Products, Inc. Grove City, Ohio	Secondary sediment control device			10/1/99			Withdrawn without prejudice.
475	Mesa Retaining Wall System Tensar Earth Technologies, Incorporated Atlanta, Georgia	Modular block retaining wall system			10/1/99			Failed laboratory freeze-thaw testing. Withdrawn from council consideration. Referred to materials.

COUNCIL RECOMMENDATION

NO.	PRODUCT NAME MANUFACTURER	DESCRIPTION	EVALUATION IN PROGRESS FIELD TEST	 LAB TEST	 OTHER	EVALUATION COMPLETED ACCEPT	 REJECT	REFERENCE TO STANDARD SPECIFICATIONS REMARKS
476	Manhole Riser American Highway Products, Limited Massillon, Ohio	Steel manhole adjusting ring				7/28/00		603 Field trial installed 8/97, City of Decatur.
477	Graffiti Solution System American Polymer Corp. Sandy, Utah	Anti-graffiti system					8/6/04	Field trials installed 10/97, City of Bloomington; 11/01, 6/02 District 8. Rejected because of poor field performance both in terms of coating failures and inability to remove graffiti.
478	Z-Clip International Fence Systems, LLC Danville, California	Wire fence			7/28/00			Withdrawn without prejudice.
479	Silicoflex R. J. Watson, Incorporated East Amherst, New York	Expansion joint seal for bridges			11/17/00			Withdrawn without prejudice.
480	4727 Zinc-Hydrogel Anode Minnesota Mining and Manufacturing Company St. Paul, Minnesota	Passive cathodic protection system					11/17/00	Field trials installed 8/97, 8/97, District 4; 9/98, District 6. Rejected because of debonding and embrittlement of hydrogel.
481	PPI Rubber Interface Performance Polymers, Incorporated Cambridge, Ontario	Elastomeric railseal interface between rails and crossing surface				9/26/97		Very similar to product proposal no. 388.
482	Pec-Mat Greenstreak, Incorporated St. Louis, Missouri	Erosion control blanket				9/26/97		Supplemental specification for section 1081.10(e)
483	Triangular Silt Dike The Triangular Silt Dike Company Midwest City, Oklahoma	Temporary sediment and erosion control barrier				9/26/97		

COUNCIL RECOMMENDATION

NO.	PRODUCT NAME MANUFACTURER	DESCRIPTION	EVALUATION IN PROGRESS FIELD TEST	 LAB TEST	 OTHER	EVALUATION COMPLETED ACCEPT	 REJECT	REFERENCE TO STANDARD SPECIFICATIONS REMARKS
484	Enviro Frame Enviromax Rubber, Inc. Laval, Quebec	Combination rubber and precast concrete manhole frame			7/28/00			Withdrawn without prejudice.
485	Dura-Check Panel Products, Inc. Springfield, Missouri	Reusable low density polyethylene ditch check					11/17/00	Field trial 5/00, District 6. Rejected because of poor field performance.
486	Aluminized Steel Type 1 Corrugated Metal Pipe St. Regis Culvert, Inc. Indianapolis, Indiana	Aluminum coated steel culvert pipe		9/25/98				Laboratory testing completed. Awaiting final report.
487	Zemdrain MD2 DuPont Company, Inc. Old Hickory, Tennessee	Controlled permeability form liner for portland cement concrete				10/25/02		Contractor option. Field trials installed 8/99, District 3; 9/01, District 8.
488	Heavy Duty Plastic Apron Endwall Wisconsin Plastic Drain Tile Corporation Jefferson, Wisconsin	High density polyethylene underdrain headwall					4/22/05	Field trials installed 12/99, 12/00, District 8. Rejected because of problems with outlet connection and lateral displacement.
489	Wabo Two Part Silicone Sealant Watson Bowman Acme Corporation Amherst, New York	Silicone bridge expansion joint sealant				8/6/04		Guide Bridge Special Provision 35 Field trial installed 6/02, District 6.
490	EnviroBerm Cascade Distribution Ltd. Edmonton, Alberta	Temporary ditch check				7/28/00		280 Field trials 8/99, 9/99, District 6.
491	Verti-Pro Alpine Stormwater Management Company Grove City, Ohio	Reusable vertical catch basin protection			10/25/02			Withdrawn without prejudice.

COUNCIL RECOMMENDATION

NO.	PRODUCT NAME MANUFACTURER	DESCRIPTION	EVALUATION IN PROGRESS FIELD TEST	 LAB TEST	 OTHER	EVALUATION COMPLETED ACCEPT	 REJECT	REFERENCE TO STANDARD SPECIFICATIONS REMARKS
492	Reflex Rubber Expansion Joint J. D. Russell Company Tucson, Arizona	Preformed expansion joint filler				7/28/00		1051
493	Galvashield Vector Corrosion Technologies Winnipeg, Manitoba	Embedded galvanic anodes	11/17/00					Field trials installed 6/01, 3/04 District 6.
494	Pecora 300 Silicone Pecora Corporation Harleysville, Pennsylvania	Self-leveling silicone joint sealant			5/4/01			Withdrawn without prejudice.
495	The Catch-All Mar Mac Manufacturing, Incorporated McBee, South Carolina	Secondary sediment control device				10/25/02		Special provision. Four field trials installed 8/01, District 1.
496	DuroTrim Welch Products, Inc. Carlisle, Iowa	Weed control mat	5/4/01					Field trial installed 9/01, District 6.
497	Temp Ramp E Z Road, Incorporated Tremont, Illinois	Temporary ramp constructed of recycled rubber for use at butt joints				8/6/04		406.18 Field trials installed 5/03, District 1; 5/03, 5/03, District 4; 7/03, District 6; 5/04, 6/04 District 3. Approved 8/6/04 for routes with permanent posted speed limits up to 55 mph.
498	Pecora 301 Silicone Pecora Corporation Harleysville, Pennsylvania	Non-sag silicone joint sealant	10/25/02					Field trial installed 3/04, Southern Illinois Airport.
499	Quick Stab Contech Construction Products Middletown, Ohio	Gasketed bell and spigot joining system for CMP				10/25/02		542, 1006 Approved up to 48” diameter.

COUNCIL RECOMMENDATION

NO.	PRODUCT NAME MANUFACTURER	DESCRIPTION	EVALUATION IN PROGRESS FIELD TEST	 LAB TEST	 OTHER	EVALUATION COMPLETED ACCEPT	 REJECT	REFERENCE TO STANDARD SPECIFICATIONS REMARKS
500	Manhole Protector Ring Work Area Protection Corporation St. Charles, Illinois	Temporary ramp constructed of recycled rubber for use at exposed drainage castings	10/25/02					
501	Spectrem 800 Tremco, Incorporated Beachwood, Ohio	Non-sag silicone joint sealant	5/9/03					Field trial installed 7/04, St. Louis Regional Airport.
502	Ultraliner Ultraliner, Incorporated Oxford, Alabama	PVC alloy fold and form pipe liner				5/9/03		Special provision. Installed 11/02, Athens, Illinois.
503	GeoRidge Nilex Corporation Centennial, Colorado	Reusable temporary ditch check				4/22/05		Special provision. Field trial installed 7/04, District 5.
504	EcoBlanket Rexius Forest By-Products Eugene, Oregon	Erosion control mulch				8/6/04		251.03 Field trial installed 4/04, District 6.
505	I Rock I Rock of Michigan Brighton, Michigan	Recycled plastic noise barrier wall				4/22/05		
506	Silt-Saver Frame & Filter Assembly Silt-Saver, Incorporated Conyers, Georgia	Sediment control device	4/22/05					

EVALUATIONS COMPLETED SINCE LAST CIRCULAR

Product Proposal #488 Heavy Duty Plastic Apron Endwall

Wisconsin Plastic Drain Tile Corporation's Heavy Duty Plastic Apron Endwall was proposed for use in Illinois as an alternative to conventional precast concrete underdrain headwalls. (Note: The terms "endwall" and "headwall" are interchangeable.) Because this product weighs less than 1/10th as much as a concrete headwall, heavy equipment is not required for installation. It was hoped that installation costs would be reduced without compromising performance. Heavy Duty Plastic Apron Endwall was accepted for field trials by the Illinois Highway Development Council at its October 1, 1999 meeting.

Twenty-three (23) Heavy Duty Plastic Apron Endwalls were installed in two projects in District 8. These experimental plastic headwalls were installed along with conventional precast concrete headwalls and the performance of the two products was compared.

Illinois 3 (Waterloo bypass)

The first project was on IL 3 near Waterloo (Waterloo bypass) between Illinois Avenue and Library Street. Twelve (12) experimental headwalls were installed during late October and early November 1999. The resident engineer, Larry Kremmel, said that rubber gaskets were used to connect the outlet pipe to the headwalls. These gaskets fit tightly, perhaps too tightly. He was concerned that the plastic headwalls might move around too much and was considering spiking down two headwalls. Overall, the installation of the plastic headwalls went well. Conversely, five concrete headwalls were damaged in handling. The locations of the plastic headwalls were indicated by yellow triangles painted on the shoulder and the locations of the concrete headwalls were indicated by white triangles.

This project was first inspected on December 1, 1999. At that time, the plastic headwalls were relatively stable and only rocked slightly when standing on one end. One rodent screen was slightly damaged. This screen was removed and straightened as much as possible. It was noted that the rodent screens on the plastic headwalls were held in place by a Philips head screw. This was not considered desirable because it would require maintenance crews to carry a screw driver to service the outlets.

The next inspection was performed on June 8, 2000. Two of the plastic headwalls needed additional backfill. As a result, it was relatively easy to rock these two headwalls. Another plastic headwall rocked slightly, but was fairly stable overall. According to Larry Kremmel, the project had already been mowed twice.

Exactly one year later, the headwalls were inspected again. Overall, the plastic headwalls still seemed fairly stable. The exceptions were the two headwalls that had inadequate backfill in the last inspection. These headwalls had shifted and were separated from their outlet pipes.

On September 21, 2001, another inspection was performed. The two headwalls that had shifted had been reset and spiked into place. The spikes were placed through the toe of the headwall. Overall, the plastic headwalls were stable. The overgrowth of

vegetation was becoming a problem, however. A couple of the plastic headwalls were almost completely hidden by overhanging grass.

By May 21, 2002, several headwalls, both concrete and plastic, had large deposits of grass clippings built up in their drainage troughs. Some headwalls (both types) had standing water in them. No lateral movement of any of the headwalls was noted. Debris was found built up behind the rodent screen of one plastic headwall.

On July 25, 2003, several headwalls were noted to be overgrown with grass. The headwalls were stable, but several of the rodent screens on the plastic headwalls were damaged. It appeared that the damage was due to maintenance personnel attempting to remove the rodent screen without first removing the Philips head screw.

The final inspection of this project occurred on March 15, 2005. Debris was noted behind the previously damaged rodent screens of the plastic headwalls. The way these screens were bent up created a funnel effect that directed grass and mud toward the outlet pipe. One plastic headwall had a large deposit of mud in its outlet pipe. Another had a void on its backside that allowed dirt to reach the apron from behind. Several headwalls were overgrown with grass. One concrete headwall had a mouse nest in its outlet and another was filled in with crushed stone. The plastic headwalls tended to be more overgrown simply because their sidewalls were narrower than the concrete sidewalls. No lateral movement was noted in any of the headwalls.

Illinois 161 @ I-64 interchange

The second project was on IL 161 two miles west of New Baden at the interchange with I-64. Eleven (11) plastic headwalls were incorporated into this project (Contract 76182). Killian Corporation of Mascoutah, Illinois was the prime contractor. The headwalls were installed during December 2000.

The installation of a few headwalls was observed on December 5, 2005. The plastic headwalls used were a modified design that had “fins” at their base designed to make them more stable. The plastic headwalls used in the IL 3 project did not have these fins.

Gaskets were not used to attach the outlet pipes to the plastic headwalls. Instead, they were grouted into place using the same method used for the concrete headwalls. Originally, it was planned to use silicone to attach the outlet pipes to the plastic headwalls, but it was too cold for the silicone to cure properly. The plastic headwalls were easy to install and the laborers liked their light weight which allowed them to be installed by hand instead of using heavy equipment. This project had very poor drainage and areas without clearly defined ditch lines.

The next inspection was on June 8, 2001. The backfill around many of the headwalls of both types was low and poorly compacted. The exceptions were two plastic headwalls that were basically buried in the ditch and were filled with mud and stones. Two of the plastic headwalls had pulled loose from their outlet pipes. Two headwalls were noted to have calcite deposits building up on their rodent screens, thus restricting some of the outflow.

Another inspection was performed on September 21, 2001. Two more plastic headwalls had displaced laterally and another was buried in mud and stones. One plastic headwall could not be found either because it had been removed or had been buried under newly placed shoulder stone. The calcite build up problem had also gotten worse. The problems in this project were primarily due to poor backfilling, a deficient drainage profile, and the lack of vegetation in the stone-filled soil.

The next inspection occurred on May 20, 2002. Some of the displaced plastic headwalls had been reset, while others remained buried under mud and stones. Calcite flakes continued to restrict the flow of two outlets. One plastic headwall was hit by a mower and was missing its top. Erosion was a problem around both types of headwall.

By July 25, 2003, more vegetation had developed around the headwalls and now some of them were obscured by overgrown grass. Some headwalls of both types had standing water, grass, and muck accumulated on their aprons.

The final inspection of this project occurred on March 15, 2005. One plastic headwall had shifted laterally and was disconnected from its outlet pipe. Calcite was found on the rodent screens of both types of headwall. Erosion continued to be a problem around both types of headwall. One concrete headwall had a very large void underneath its toe. Another concrete headwall was found to have been hit by a mower and, like the earlier plastic headwall, had lost its top.

The plastic headwalls performed fairly well on the IL 3 project and very poorly on the IL 161 project. The reasons for the disparity in performance were the deficient backfilling, poor compaction, lack of vegetation, and overall bad drainage profile in the IL 161 project. This evaluation showed that plastic headwalls have the potential to perform well when conditions are favorable, but are very unforgiving when they aren't. The addition of fins did not improve the performance of the plastic headwalls. In contrast, the concrete headwalls performed equally well in each project. Their considerable mass made them less likely to displace laterally.

It is still felt that plastic headwalls have potential, but design details need to be improved. The connection between the headwall and the outlet pipe needs to be changed so that the headwall will not break free from the outlet pipe. A drop-in rodent screen would be more desirable than using a Philips head screw to hold it in place. Because of the narrow sidewalls, the plastic headwalls became overgrown more easily. Perhaps the use of a weed mat like Duro-Trim around the perimeter could alleviate this problem.

Lessons were learned about both types of headwall in this evaluation. Current maintenance levels are inadequate to assure proper flow. Vegetation needs to be kept back away from the outlet and the apron area needs to be kept free of grass clippings and other debris. The formation of calcite deposits is a serious problem that greatly restricts the flow of water. Outlets containing these deposits need to be flushed promptly and their rodent screens need to be cleaned or replaced. Since the deposits on the screens were found to be quite hard, the easiest way to clean them would probably be to soak them in acid.

Final Council Action

The Illinois Highway Development Council that Heavy Duty Plastic Apron Endwall be rejected for use in Illinois.

Product Proposal #503 GeoRidge

GeoRidge was proposed for use in Illinois as a temporary ditch check. The Illinois Highway Development Council recommended that GeoRidge be field tested at its September 5, 2003 meeting.

Two GeoRidge ditch checks were installed along the west side of IL 1 on July 1, 2004. Knitted straw mat was placed in the area surrounding and underlying the GeoRidge ditch checks. The remaining ditch checks on the project were constructed of conventional straw bales.

On July 13, 2004, the area experienced heavy rains. Based on reports from surrounding towns, it is estimated that approximately 1.00 inch of rainfall fell on the project area. Inspections of the ditch checks on July 16, 2004 revealed that the GeoRidge ditch checks were highly effective at holding back sediment without damming up the ditch. It appeared that when the water built up around the straw bale ditch checks, it had a tendency to flow around the edges. Very little sediment was found in front of the straw bale ditch check that was downstream from the two GeoRidge ditch checks. This indicates that the GeoRidge ditch check effectively stopped the sediment flow.

The two GeoRidge ditch checks installed on IL 1 south of Marshall performed well. They held back significant amounts of sediment without completely damming up the ditch. It is safe to say that they performed as well as, if not better than, conventional straw bale ditch checks.

Final Council Action

The Illinois Highway Development Council recommended that GeoRidge be approved by as a temporary ditch check material.

Special Investigation - ISAC

Reflective cracking of bituminous concrete overlays has long been a problem in pavement rehabilitation. In 1993, the University of Illinois completed research directed by the Illinois Department of Transportation on a prototype Interlayer Stress Absorbing Composite (ISAC). A prototype test section was placed on IL 38 near Rochelle, IL in 1993. Other ISAC test sections were placed on five asphalt concrete overlay (ACOL) projects between 1997 and 2000. Some of these ACOL sections contain other reflective crack control methods, such as Sand Anti-Fracture (SAF) layer, strip, and area-wide reflective crack control fabric.

ISAC consists of a three-layer system. The top layer is a high strength woven geotextile to resist stresses caused by underlying pavement movements. This layer has the ability to, due to its weaving, expand like a chain link fence. This movement dissipates the stress caused by the movement of the underlying pavement. Typically,

this geotextile has a tensile strength greater than 4,000 lb. /in. (700 N/mm) at 5% strain (ASTM D 4595). High strength is needed to ensure that, when the geotextile is expanded to its full extent, the geotextile strength is greater than the strength of the bituminous concrete overlay. The bottom layer is a low strength, nonwoven, geotextile (meeting AASHTO M-288-92). The middle layer is a modified rubberized asphalt layer to absorb the strain energy and bond the two geotextiles together. The system bridges across the joint or crack and dissipates stresses resulting from opening or closing movements. ISAC is bonded to the existing pavement using a tack coat and then the overlay is placed.

After ISAC was tested in the laboratory, a field test installation was performed by the Department on IL 38 between Ashton and Rochelle. This section was placed in July 1993. The results of this test installation were favorable. It was decided to place ISAC strips on additional projects to determine its effectiveness.

FIELD INSTALLATIONS

IL 29 - Contract 88535

This project was located on IL 29 in Tazewell County, District 4, under the I-474 interchange. This section was a bare 10-inch jointed reinforced concrete pavement (JRCP) with a 50-foot joint spacing built in 1975. There were three through lanes with a left turn lane at the south end. The average daily traffic (ADT) of this section in 2003 was 28,900 vehicles. The average daily truck traffic (ADTT) was 850 trucks with 750 multiple units (MUs).

ISAC strips were placed over nine joints and cracks in the northbound median lane and two joints and cracks in the southbound median lane. PavePrep peel and stick, “System B” reflective crack control fabric, was placed over two joints and cracks in the northbound median lane and 11 joints and cracks in the southbound median lane. Area-wide fabric was used in the northbound and southbound outside lanes. Construction notes stated that reflective crack control was not used in the middle lanes of each direction. However, fabric was visible in some of the high severity transverse cracks in the middle lane, as noted on the pavement distress survey sheets. Formal control (untreated) sections were not established during the installation.

A rubberized asphalt tack coat (ASTM D 6690 Type II, old ASTM D 3405) was used and resulted in good ISAC adhesion to the original pavement. A 1.25 inch level binder was placed over the ISAC and the PavePrep. Some asphalt bleeding and material shrinkage occurred during paving. There was some cracking along the fabric edges. The lay down temperature of the binder was 310 ºF. A heavier than normal pneumatic roller was initially used, but shoving and pickup of the PavePrep resulted. Once this roller was replaced, the shoving and pickup problem was eliminated. There were no problems with the ISAC areas. A one inch surface lift was placed bringing the total ACOL thickness to 2.25 inches. The surface was completed in the Fall of 1997.

IL 267 (former US 67) Contract 76140

This project was located on IL 267 (former US 67) in Greene County, District 8, from TR 135 to the Morgan County line, 7.65 miles north. It was a two-lane, 30 foot jointed, 9-6½ -9 Portland Cement Concrete (PCC) pavement with two 3.00 inch ACOLs. This 20-foot wide pavement was built in 1939 and widened by one foot on each side with the 1970 overlay. The second overlay was placed in the early 1980's. The overlay for this study was placed in late October 1998. The 2003 ADT was 2400 vehicles. The ADTT was 500 trucks with 350 MUs.

The existing overlay was not milled. Full depth bituminous patches were placed at joints and cracks. These patches accounted for 2.8% of the pavement. The existing pavement was widened with this overlay to provide a safety shoulder. ISAC strips were placed over pre-designated joints, patch-joints, and cracks from TR 135 northerly for one mile. The ISAC strips extended from the centerline to the edge of the existing pavement. Many of the joints and cracks within this mile were not covered with ISAC. No other reflective crack control methods were used within this section. Formal control (untreated) sections were not established during the installation.

The 103 ISAC strips were installed in about seven hours. The strips were bonded to the pavement with rubberized asphalt. One crew placed the rubberized asphalt at 350 ºF from a Crafco kettle. The next crew peeled the backing from the ISAC and placed it onto the rubberized asphalt. One laborer rolled the strip with a steel roller and a crew placed sand over the ISAC to prevent the car tires from sticking to the fabric. The temperature was cool during installation and the strips were left exposed overnight. There was no damage to the strips after one half day of traffic.

The total overlay thickness was 2.25". A 0.75" level binder was placed followed by a 1.50" Class D surface mix. The rubberized asphalt did not soften and the ISAC did not shadow (a slight visible indication of ISAC through the binder) after it was compacted. The pneumatic roller was not stopped or started on an ISAC strip.

US 136 @ I-155 Contract 72080

This project was located on US 136 east of San Jose and west of Interstate 155. The ISAC strips were added to this project which contained a SAF special provision. Contract # 72080 was let on January 15, 1999. The contract contained the following description of work: 12.13km (7.54mi) patch, surface removal, bituminous resurfacing, and bridge deck repairs on three structures on US 136 between San Jose and I-155. Installation of the SAF and ISAC started in early October 1999.

This section was a two-lane, 30 foot jointed, 9-6½ -9 PCC pavement with a 3.00 inch ACOL. This pavement was built in 1937 and overlaid in 1983. The existing ACOL was badly deteriorated, so the surface was milled. The depth of milling varied. There was minimal full depth bituminous patching and the roadway was not widened.

Petromat was placed in the westbound lane and a 3/4" level binder was placed over the Petromat. A 3/4" SAF layer was placed directly on the milled surface in the eastbound lane. A short section, 850 feet, of the westbound lane contains ISAC reflective crack control strips. There were 47 ISAC strips placed over cracks on the east end of the project in the westbound lane. PK nails were placed in the edge line at the

ISAC locations. The 2003 ADT of this section was 2350 vehicles. The ADTT was 650 trucks with 500 MUs.

A rubberized AC-10 asphalt prime was used as a tack coat. The contractor installed the 47 ISAC strips in 1.5 hours. A distribution truck was used to apply the tack coat. One crew laid the ISAC strips into the tack coat and peeled the backing. One laborer rolled the ISAC with a steel roller. The air temperature was 75 ºF. This cooler temperature allowed for a faster curing of the asphalt tack coat and resulted in a good bond between the ISAC and the pavement. There was no shadowing of the ISAC after the binder was placed. Adhesion of the ISAC to the pavement was better than on the IL 29 project.

The binder was placed three hours after the ISAC installation. The ISAC strips were not exposed to traffic. The mix was produced at the Freesen drier drum plant in Peoria. There were no noted problems with the laydown of the SAF layer. The AC was supposed to be in the 8.5% range, but was out of specification at times.

Koch Materials requested that a polymer overlay surface, PG 70-22/28, be used as an alternate on a one or two mile section. Koch representatives claimed that a polymer modified asphalt surface would improve the reflective crack resistance. District 6 rejected this proposal, because it was too late to change to polymer modified asphalt. An AC-20 Type 2 D mixture with 12% RAP was used for the surface mix. The representatives claimed that this mix would not be flexible enough to work with the SAF layer.

I-55 (MP 23 - 26) Contract 96721

This project was located in the southbound lanes of Interstate 55 between mileposts 23 and 26. The pavement was a 100-foot jointed reinforced concrete pavement (JRCP). It was built in 1956 as US 66 and was overlaid in 1976 with a 3.00 inch ACOL and in 1987 with a 3.25 inch ACOL. The 2003 ADT of this section was 26,500 vehicles and the ADTT was 7600 trucks with 6400 MUs.

This section was patched in the Fall of 1998 and overlaid with an asphalt concrete binder course. Traffic was allowed on the binder throughout the winter. Reflective cracks formed in the binder and needed repair before the surface was placed. The district wanted to use the ISAC strips at these locations to deter the reflective cracks. It should be noted that only the reflective cracks that were visible were repaired. There may have been other locations where the reflective cracks had begun, but had yet to reach the surface. Formal control (untreated) sections were not established during the installation.

The binder around the reflective cracks was milled 2.5 inches to expose the concrete patch. A rubberized asphalt (D-6690 Type II) tack coat at 400 ºF was used to provide a bond between the fabric and the pavement. The plastic backing remained on the ISAC while a hand roller was used to seat the ISAC. A rubber-tired vehicle was used for final seating.

ISAC strips were placed on each joint at 14 patch locations. There was no difficulty placing the ISAC strips. The strips were not exposed to traffic. The binder layer was replaced at the ISAC locations and a 1.5 inch polymerized surface mix was

then placed over the entire section. A “99” was stamped in the surface near the edge stripe at each ISAC location. The surface was completed in June 1999.

Mattis Avenue (Champaign)

This project was located on Mattis Avenue in Champaign, IL between Springfield Avenue and Kirby Avenue. The original pavement was jointed concrete built in 1966. There were four through lanes with a four foot wide rumble strip median. The outside through-lanes were 14 feet wide and the inside through-lanes were 12 feet wide. The ADT of this section was 15,000 vehicles and the ADTT was 200 trucks. This was a City of Champaign project.

“System A” reflective crack control fabric was placed over the longitudinal joints. ISAC strips were placed over the transverse joints and cracks in both directions. Roadtac self-adhesive membrane strip reflective crack control fabric, “System B”, was placed in the two southbound lanes in the southern 3000 feet. “System A” reflective crack control fabric strips were placed over the transverse joints and cracks at the southern edge of the northbound lanes. The raised concrete curbs were painted with a white “T” at the joints and cracks that received ISAC or crack control treatment. Formal “control” (untreated) sections were not established during the installation.

A four man crew and truck driver placed the ISAC strips. An asphalt tack coat was sprayed over the crack or joint before the ISAC strip was placed. The asphalt tack coat was wider than the ISAC strip and the ISAC absorbed some of the tack coat. A Superpave asphalt concrete mix was placed in two lifts. The first lift was 1.5” and the surface lift was 1.625”. Traffic was diverted away from the work zone lanes and was not allowed directly on the ISAC strips. The overlay was completed in September 2000.

SUMMARY OF FIELD INSTALLATIONS

Each of the five locations where ISAC was installed to delay reflective cracking contained a wide variety of qualities and parameters that could affect the performance of the product. The original and existing pavement type and condition varied, as did the amount of patching and surface preparation. The heavy truck traffic ranged from low to very heavy. Some sections were rural and some sections were urban. The number of traffic lanes ranged from two to six.

ISAC – Section Information								
Location	Initial Pave.		Number of		Preparation		Traffic	
Route	Type	Built	ACOL	Lanes	Patch	Mill	ADT	ADTT
IL 29	JRCP	1975	Bare	6	No	No	28,900	850
IL 267	JPCP	1939	2	2	Bit.	No	2400	500
US 136	JPCP	1937	1	2	Bit.	Yes	2350	650
I-55	JRCP	1956	2	4	PCC	Yes	26,500	7600
Mattis Ave.	JPCP	1966	Bare	5	No	No	15,000	200

Different tack coats, rollers, and methods were used to install the ISAC strips. Most of the ISAC strips were not exposed directly to traffic. IL 267 was the main

exception. The asphalt binder and surface mixes and thicknesses that were placed over the ISAC also varied from project to project.

All of the sites had some form of listing of the location of the ISAC, System A, and System B strips. Since pre-overlay pavement distress surveys were not performed at any of the test locations, the potential for reflective cracking at a given location could not be determined. Formal "control" (untreated) sections were not established during the installation. Reflective cracks that formed at locations without crack control were categorized as "untreated." The IL 267 and Interstate 55 projects had the greatest amount of untreated joints and cracks that could be compared with the ISAC locations.

Other reflective crack control systems were installed on three of the five projects. The Mattis Avenue project provided the best documentation of existing crack locations and the type of system that was installed. The US 136 project provided a side-by-side comparison of ISAC and SAF, but did not contain an untreated section. The existing cracks at the untreated location were not listed on the IL 29 project.

FIELD EVALUATION

Pavement distress surveys were performed for each section. Following is a detailed discussion of each project.

IL 29 - Contract 88535

There was no pre-overlay distress survey or listing of cracks. The metric station location of each ISAC or PavePrep strip was noted. Field inspections were performed in 1998 and 1999. Pavement distress surveys were performed annually from 2000-2004. Only the inner most lane in each direction was surveyed. The severity of cracks in the middle and outer lane was noted in the margin of the survey sheets starting with the 2002 survey. Reflective cracks that formed at locations without crack control were categorized as "untreated." There were 49 untreated cracks as of 2004.

After three years, nine of the 13 (69%) PavePrep locations had reflective cracks, while only three of the 11 (27%) ISAC locations had reflective cracks. At this time, 28 of the 49 (57%) other reflective cracks at untreated locations had reflected through the overlay. All cracks were low severity. After seven years, 12 of the 13 (92%) PavePrep locations had reflective cracks with seven high severity cracks, while eight of the 11 (73%) ISAC locations had reflective cracks with one high severity crack. After this survey, eight of the 49 (16%) reflective cracks at untreated locations were high severity and 24 (49%) were medium severity.

Many of the PavePrep locations and some of the ISAC locations contained two or more cracks that were one to two feet apart. Some of these double cracks extended across the entire lane and sometimes the cracks formed "Y's". The cracks in the adjacent lanes were usually single cracks and much straighter. Crack control fabric was exposed in some of the high severity cracks in the outer and middle lanes.

Since there was no pre-overlay survey, the number of untreated cracks and joints is unknown. However, only five new cracks were recorded in the 2003 and 2004 surveys. The ISAC strips delayed the reflective crack by about two years. The crack

severity progression was also delayed by about two years. The PavePrep locations had the quickest formation of reflective cracks and the highest severity progression.

IL 267 (former US 67) Contract 76140

A list of existing crack and patch locations was recorded in meters before the ISAC strips were placed. The locations of the ISAC strips were noted on the list. Pavement distress surveys were performed annually from 2000-2004. All of the surveys were performed using metric measurements. There were no stations stamped into the overlay. The lack of stations and landmarks made it difficult to correlate the initial crack listing with the cracks on the distress surveys. After the 2004 distress survey, enough cracks had reflected through the overlay to correlate them to the pre-overlay listing. Reflective cracks that formed at locations without ISAC crack control were categorized as “untreated.” There were 131 untreated cracks as of 2004.

After three years, 14 of the 103 (14%) ISAC locations had reflective cracks. At this same time, 40 of the 131 (31%) untreated cracks had reflected through the overlay. After four years, 28 of 103 (27%) ISAC locations had reflective cracks. At this same time 70 of the 131 (53%) untreated cracks had reflected through the overlay. After five years, 41 of the 103 (40%) ISAC and 81 of the 131 (62%) untreated cracks had reflected through the overlay.

A large increase in reflective cracks at ISAC locations occurred between the 2003 and 2004 survey. The reflective cracks increased from 31 to 89. The reflective cracks at the untreated sections increased from 81 to 131. It was also between these surveys that the cracks were routed and sealed.

Before the cracks were sealed between the 2003 and 2004 surveys, there were 15 medium and high severity cracks at the untreated locations and only two medium severity reflective cracks at ISAC locations. The severity levels of the sealed cracks were rated at the previous severity level unless they had deteriorated further. The ISAC strips delayed the reflective cracks between one and two years.

US 136 @ I-155 Contract 72080

Pavement distress surveys were performed annually from 2000-2004. There were two surveys performed in 2001. The first survey was performed using metric units. The correlation between the metric stations and the initial crack listing, performed using English stations, was uncertain. The survey on August 17, 2001 and all subsequent surveys were performed using English units. The PK nails marking the ISAC locations were located during this survey. The cracks in the previous surveys were correlated to the PK nails. Reflective cracks that formed at locations within the ISAC section, but not at an ISAC location, were categorized as “untreated.”

The ISAC section was compared to the SAF section that was in the adjacent lane. The lengths of these sections were the same. The SAF section had 20 more reflective cracks, in the 2002 survey, than the ISAC section. Only one low severity crack in the ISAC section was not at an ISAC strip. Seams were forming at 18 of the 47 ISAC locations and four SAF locations. The ISAC strips were more effective at delaying the reflective cracks than the SAF layer. The formation of reflective cracks in the ISAC section was delayed about two years.

The cracks were routed and sealed a few days before the 2003 survey. The number of reflective cracks in the ISAC lane increased from 36 to 52 between 2002 and 2003. Of these 52 cracks, 43 were at ISAC locations and nine were at untreated locations. Forty-three (43) of the 47 (91%) ISAC locations had a reflective crack. After the cracks were sealed, the number and severity of the reflective cracks were almost identical between the two adjacent lanes.

The number of reflective cracks in the SAF section was lower in each survey than the number of reflective cracks in the area-wide section that was in the adjacent lane. The number of medium severity cracks in the area-wide section was three times greater than the SAF section in 2004. The number of medium severity cracks increased between 2003 and 2004 in all of the sections. This increased deterioration occurred despite the cracks being sealed in 2003.

I-55 (MP 23 -26) Contract 96721

There was no pre-overlay distress survey or crack listing for this section. A list of ISAC locations was recorded. Pavement distress surveys were performed annually from 2000-2004. The initial ISAC locations were listed in English units. Since metric stations were stamped into the overlay, the 2000, 2001, and 2002 distress surveys were performed using metric units. Reflective cracks that formed at locations without crack control were categorized as “untreated.”

The correlation between the ISAC listing and metric surveys was not apparent despite the regular 100-foot reflective crack spacing. The correlation between the initial listing and the pavement distress surveys was made after the 2003 survey, which was performed using English units. It was during this survey that the “99” stamped into the overlay at the ISAC locations was confirmed. The inner southbound lane was also surveyed to provide a comparison with the outside lane, which contained the ISAC strips.

The percentage of reflective cracks at the ISAC locations after three years, 29%, was slightly less than the percentage at the untreated locations after one year, 34%. This percentage was almost identical to the percentage of reflective cracks in the lane adjacent to the ISAC patches, 30%, after two years. There was a similar comparison of the ISAC locations after four years, 71%, to the untreated after three years, 69%, and with the adjacent lane after two years, 70%.

One patch was placed before the 2003 survey and two patches were placed before the 2004 survey in outer lane. The reflective cracks in the outer lane were rapidly deteriorating. There were 93 high severity cracks in 2004 and many of these cracks had been treated with spray injection patches. All of these cracks were at untreated locations. There were 17 low severity and three medium severity reflective cracks at the ISAC locations.

The formation of the reflective cracks was delayed two years when compared with the untreated locations in the same (outer) lane. Despite the greater heavy truck traffic in the outer lane, the reflective cracks were delayed by one year when compared with the reflective cracks in the adjacent inside lane. There were no high severity

reflective cracks in the inside lane as of the 2004 survey and only 15 medium severity cracks.

Mattis Avenue (Champaign)

There were two separate pre-overlay listings of ISAC and reflective crack control locations for this site. The stations differed slightly, but it was possible to correlate the ISAC locations with the reflective cracks recorded in the pavement distress survey using the white paint marks on the curb. Pavement distress surveys were performed annually from 2001-2004. All listings and distress surveys were performed using English units. The cracks were routed and sealed during the Fall of 2003.

After one year, nine of 455 (2%) ISAC locations had reflective cracks. At this same time, three of 12 (25%) System A (non-woven fabric), 32 of 84 (38%) System B (Roadtac), and 15 of 26 (58%) untreated locations had reflective cracks. After three years, 102 of 455 (22%) of the ISAC locations had reflective cracks. At this same time, six of 12 (50%) of System A (non-woven fabric), 58 of 85 (68%) System B (Roadtac), and 23 of 26 (88%) untreated locations had reflective cracks.

The greatest increase in reflective cracks at the ISAC locations, from 18 to 102, occurred between year two and three. There was an increase to 153 in year four. When compared with “System A”, the reflective cracks were delayed by about two years with ISAC. When compared with “System B”, the reflective cracks were delayed almost three years. When compared with the untreated locations, the reflective cracks were delayed over three years.

COST ANALYSIS

Asphalt surface and binder costs vary greatly by district and quantity purchased. The local Illinois distributor of ISAC stated that the typical installation costs of ISAC range from $10-14 per foot depending on the quantity purchased. The larger the quantity purchased, the lower the cost/foot of ISAC.

An equation to determine the number of cracks that could be treated with ISAC, N, was developed. It was assumed that the average overlay lasts ten years and that the use of ISAC would extend this life to twelve years. A one lane-mile section was used. It was also assumed that the cracks extended the entire lane width, so that the lane width and ISAC length across the lane would be equal. The average yearly cost of the ten-year overlay and the average yearly cost of the twelve-year overlay with ISAC were set equal. The equation was solved for N, and is listed below.

When the cost and thickness of the surface and binder and the ISAC cost are known, the following equation estimates the maximum number of cracks per mile that can be covered with ISAC to get an equal cost per year over the extended life of the overlay.

$$N = [(Ts \times Cs + Tb \times Cb) \times 6.57] / Ci$$

Ts	Thickness - surface	(inches)
Tb	Thickness - binder	(inches)
Cs	Cost - surface	($/Ton)

Cb	Cost - binder	($/Ton)
Ci	Cost - ISAC	($/Lineal Foot)
N	Number of cracks and joints to be covered with ISAC per lane mile	

This equation shows that the higher the total cost of the asphalt concrete the higher the number of cracks that can be treated with ISAC. Also, the lower the ISAC cost, the higher the number of cracks that can be treated.

The formation of reflective cracks and the subsequent deterioration of these cracks were delayed at ISAC treated joints and cracks. This statement was true for all five test sites. This delay ranged from over one year to close to three years when compared to the untreated and other crack control methods. Of special note, the ISAC areas consistently outperformed the System B products, PavePrep and Roadtac. When compared with SAF, the ISAC delayed reflective cracks by about two years. The two sections performed the same after the cracks were routed and sealed.

The cost analysis indicated that the higher the total cost of the asphalt concrete the higher the number of cracks and joints that could be treated with ISAC. The present cost of the ISAC strips, $10 - $14 per foot, limits the conditions under which it would be cost effective to use ISAC. If asphalt costs are high or the cost of ISAC were to decline, there would be more projects that could benefit from using ISAC.

Final Council Action

The Illinois Highway Development Council recommended that ISAC be approved for use in Illinois as a reflective crack control system.

NEW PROPOSALS

Product Proposal #505 I Rock

I-Rock was proposed for use in Illinois as a noise barrier wall material. A Preliminary Information for Product Evaluation form, dated July 19, 2004, was received from Michael Hill of Vortex Composites, the Illinois representative for I Rock of Michigan.

I-Rock consists of hollow beams that fit between H-posts. The hollow design, plus the fact that the unit weight of plastic is about 40 percent of concrete's unit weight, is a big benefit for load sensitive applications such as on bridges. The tops and bottoms of the beams have a tongue and groove design. The beams are constructed of 100% recycled plastic using a patented cold extrusion process. A unique feature of I-Rock is that it is made of commingled plastic rather than any specific type of plastic. I-Rock has a compressive strength of about 2000 psi and a flexural strength of about 1100 psi. It can be produced in various colors and patterns can be formed into its surface.

Some samples of I-Rock were provided to the Bureau of Materials and Physical Research. The samples were similar in appearance to Portland cement concrete with gravel aggregate. These samples were shown to the Illinois Highway Development Council at its August 6, 2004 meeting along with a PowerPoint presentation on I-Rock. The Council was impressed with the product and thought that the samples had an attractive appearance.

On September 8, 2004, a wall section in Bradley, Illinois that had been constructed in 1997 was inspected. The amount of UV-inhibitor was increased from bottom to top in an attempt to determine the minimum amount needed. The lower beams were tan in color and the top beams were a charcoal color. Some flaking was noticed in the lower beams, but not in the upper beams. There was some variation in the beams and the front faces did not align perfectly. This was said to be due to the somewhat crude forms used in the initial development of the product. Much better forms are now used.

Mr. Hill supplied engineering calculations showing that I-Rock is capable of withstanding a 35 pound per square foot wind loading. The calculations also showed that a different post needs to be provided than what was originally planned for use. He also provided data from sound transmission loss testing according to ASTM E90. The transmission losses ranged from 23 to 37 decibels, depending on the test frequency. This satisfies IDOT's requirement of a minimum 20 decibel loss across all test frequencies. The Sound Transmission Class (STC) for I-Rock is 31. No testing was submitted to determine the noise reduction coefficient. Therefore, it is not known whether or not I-Rock can be classified as an absorptive noise barrier wall.

I-Rock appears to be a viable noise barrier wall. Its ability to utilize recycled materials without sacrificing performance is commendable. Its light weight is beneficial for load-sensitive applications. In addition, it has an attractive appearance that should be popular with the public. Based on currently available information, it can only be approved as a reflective noise barrier wall.

Final Council Action

The Illinois Highway Development Council recommended that I-Rock be approved as a reflective noise barrier wall

Product Proposal #506 Silt-Saver Frame & Filter Assembly

The Silt-Saver Frame & Filter Assembly (Silt-Saver) was proposed for use in Illinois as a method of inlet protection during construction activity. Earl R. (Roger) Singleton submitted a Preliminary Information for Product Evaluation form for this product. Mr. Singleton is the President /CEO of Silt-Saver, Inc, which is located in Conyers, Georgia. This product is manufactured by Silt-Saver, Inc.

Silt-Saver is a two-piece unit consisting of a high density polyethylene frame and a non-woven geotextile fabric cover. Silt-Saver can cover 48 inch circular or 60 inch rectangular inlets and storm sewer openings. The frame provides structural integrity, while the fabric cover controls sediment infiltration. The literature claims that no special tools are needed to install Silt-Saver. It can be installed quickly by one person and does not require stakes, concrete, or asphalt to keep it in place. It is simple to remove, clean, or replace and can be reused on other sites. The material cost of the Silt-Saver is $315.

FIELD INSTALLATIONS

IL 1- South of Marshall

District 5 placed two 48-inch circular Silt-Savers on IL 1 south of Marshall. This project consisted of ditch work and an asphalt concrete overlay. The Silt-Savers were working, but there was low flow into the inlets.

Interstate 70 – Mill Creek

This project was located on Interstate 70 near Mill Creek. Straw bales were initially used to protect an inlet from eroding soil in a high flow area. The inlet area kept getting plugged with straw and was causing wash outs. A 48-inch circular Silt-Saver was moved from the IL 1 project and placed over the inlet. There were no washouts after the Silt-Saver was installed.

FIELD EVALUATION

Gregory Idleman of District 5 stated that he was very impressed with the Silt-Saver. It was lightweight and easy to install. When straw bales were used the straw would cover and clog the inlet, preventing water from flowing into the inlet. Washouts would then occur. The height of the Silt-Saver prevented the inlet from getting clogged and allowed water to flow through the fabric and into the inlet, thus preventing washouts.

Silt-Saver performed well on the Interstate 70 project, however, only one Silt-Saver was used. More tests are needed to determine if Silt-Saver will work under different conditions. No conclusions can be made at this time.

Final Council Action

Based on the field installation on Interstate 70 in District 5, the Illinois Highway Development Council recommended that additional field tests be performed.

NEWS ITEM

There was no news item at this meeting.